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Victaulic Company of America

Certified Mail No. P409-674-317 Return Receipt Requested

April 1, 1991

Mr. Lance R. Richman, P.G. Remedial Project Manager New Jersey Superfund Branch II 26 Federal Plaza, Room 13-100 New York, NY 10278

Victaulic Company of America - Apex Facility
Pohatcong Valley Superfund Site
Washington Township, Franklin Township
Warren County, New Jersey

Dear Mr. Richman:

In March of 1989, Victaulic responded to EPA's Request For Information regarding the above site by supplying written explanations and documents relating to the questions found in EPA's letter of February 7, 1989. Subsequently, on February 27, 1991, Victaulic received another Request For Information from the EPA seeking clarification and additional information to supplement our previous submission.

Attached is Victaulic's response letter along with the documents used to complete the response. Please note the questions asked are underlined with the response immediately following. As per our recent telephone conversation on March 7, 1991, the first question, which refers to Attachment 6, should refer to our previous response to question #7 supplied in March of 1989. Therefore, the answers supplied to the first question refer to our previous response to question #7.

Mr. Lance R. Richman New Jersey Superfund Branch II

If there are any questions regarding the information submitted, feel free to contact me at 215-559-3476.

Very truly yours,

Buce W. Host J.

Bruce W. Host, Jr. Environmental Engineer

BWH/jms

Attachments

cc: Ms. Deborah Mellot
Office of Regional Counsel
New Jersey Superfund Branch II
26 Federal Plaza, Room 13-100
New York, NY 10278
Certified Mail No. P409-674-318



Response to EPA's Request for Information Victaulic Company of America Apex Facility

1) Please provide the quantities of chemicals purchased annually.

The following is a listing of the chemicals purchased along with the quantities of each during the year 1988.

	•		
a)	Zinc Ammonium Chloride	27,950	pounds
ъ)	Hydroflouric Acid	13,050	pounds
c)	Ammonium Chloride	1,000	pounds
d)	Merpol HCS	400	pounds
e)	Zinc, Prime Western	790,208	pounds
f)	Zinc Brightener	3,711	pounds
g)	Zinc Anodes	4,950	pounds
h)	Potassium Permanganate	440	pounds
i)	Caustic Cleaner	3,600	pounds
j)	SC-109 Cleaner (Sodium Hydroxide)	5,200	pounds
k)	Sulfuric Acid	129,000	pounds
1)	Hydrochloric Acid	24,500	pounds
m)	Potassium Chloride	7,250	pounds
n)	Boric Acid	1,900	pounds
٥)	Sodium Bisulphate	200	pounds
p)	Ekolasid 355 Make-Up	605	gallons
q)	Ekolasid 355 Maintenance	605	gallons
r)	280DD Cleaner	3,700	pounds
s)	Rodip CZ219	50	gallons
t)	Rodip ZN235 Make-Up	400	gallons
u)	Rodip ZN235 Maintenance	5	gallons
v)	Zinc Chloride	400	pounds
w)	Liquid Caustic Soda (Sodium Hydroxide)	275	gallons
x)	Hydrogen Peroxide	140	pounds
y)	Tower 464 Stripper (Sodium Hydroxide)	19,840	pounds
z)	Tower 392 Safety Solvent	40	gallons

Please provide copies of purchase orders which identify your vendor(s) and quantities of chemicals purchased.

See Appendix I for copies of purchase orders.

What quantity of chemical waste is generated annually?

This information can be found on the NJDEP Generator Annual Reports previously submitted on March 15, 1989 to the EPA, along with the more recent Annual Reports submitted to the NJDEP.

2(a) Please describe the specific nature and quantities of wastes disposed of via the on-site lagoon.

Various tanks used in the galvanizing or electroplating processes were pumped into the infiltration/percolation lagoon prior to December 1979. The following is a listing by department, of the tanks, their capacity, contents and an estimate as to how often they were changed.

Pickle Room:

Caustic Tank #1 - 1,683 gallons - caustic soluction - every 2 or 3 years

Caustic Tank #2 - 322 gallons - caustic solution - every 2 or 3 years

 $\frac{\text{Caustic Tank } \#3}{2 \text{ or 3 years}} \text{ - 322 gallons - caustic soluction - every}$

<u>Sulfuric Tank</u> - 1,435 gallons - sulfuric acid solution - every 7 to 14 days

Hydroflouric Tank - 1,150 gallons - hydroflouric acid solution - every 12 months

Galvanizing Section:

Conveyor Line Caustic Tank - 1,370 gallons - caustic solution - every 20 to 30 months

Conveyor Line Acid Tank - 1,230 gallons - sulfuric acid solution - every 12 months

Plating Section:

Barrel Line Caustic Tank #1 - 200 gallons - caustic solution - every 3 weeks

Barrel Line Caustic Tank #2 - 200 gallons - caustic solution - every 3 weeks

<u>Barrel Line Acid Tank</u> - 200 gallons - hydrochloric acid solution - every 2 to 4 weeks

Still Line Caustic Tank - 725 gallons - caustic solution - every 30 days

Still Line Acid Tank - 360 gallons - hydrochloric acid solution - every 2 to 3 weeks

Still Line Chromate Tank - 350 gallons - chromate treatment solution - every 2 weeks

(May vary depending on use.)

In addition, rinse waters were also pumped to the infiltration/percolation lagoon. There are no records on the quantity of rinse water transferred.

(b) Have well monitoring programs or other studies been conducted to determine the extent of any on-site contamination?

Yes, well monitoring programs have and are being conducted.

Have monitoring wells required by your NJPDES permit been installed?

Yes, the monitoring wells required by our NJPDES permit have been installed.

Please provide all available information and data pertaining to any well monitoring program.

The Apex facility was issued a NJPDES Permit (Permit Number NJ0099791) in February of 1988. A copy of the Permit appears in Appendix II. The monitoring requirements of the permit have been followed with the installation of the groundwater monitoring wells and the subsequent quarterly monitoring. All quarterly Discharge Monitoring Reports, which contain the analytical results or data, are submitted to the State of New Jersey at the following address:

Bureau of Information Systems
Division of Water Resources
New Jersey Department of Environmental Protection
CN-029

Trenton, New Jersey 08625
Attention: Monitoring Well Reports

Also, this analytical data is shared between the state and the EPA and should be available at the following location:

United States Environmental Protection Agency
Region II
Permit Administration Branch
26 Federal Plaza
New York, New York 10278

3) Please clarify Modern Transportation's last date of use with regards to the disposal of waste materials.

The New Jersey Generator's Annual Report for the year 1981, a copy is found in Appendix III, clearly shows on Page 1 that Modern Transportation was last used on August 12, 1981. After this date, the Apex facility switched to Waste Conversions for the next shipment of waste on September 23, 1981. This is shown on Page 2 of the annual report. Copies of the manifests detailing this change are also found in Appendix III. Therefore, the response letter of March 15, 1989, was in error in stating that Waste Conversions was used since April of 1981.

BWH/jms

CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

State of _	Pennsylvania	
County of	Northampton	

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document (response to EPA Request for Information) and all documents submitted herewith, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete, and that all documents submitted herewith are complete and authentic unless otherwise indicated. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

David S. Bugby

NAME (print or type)

Vice President - Manufacturing

TITLE (print or type)

SIGNATURE

Sworn to before me this

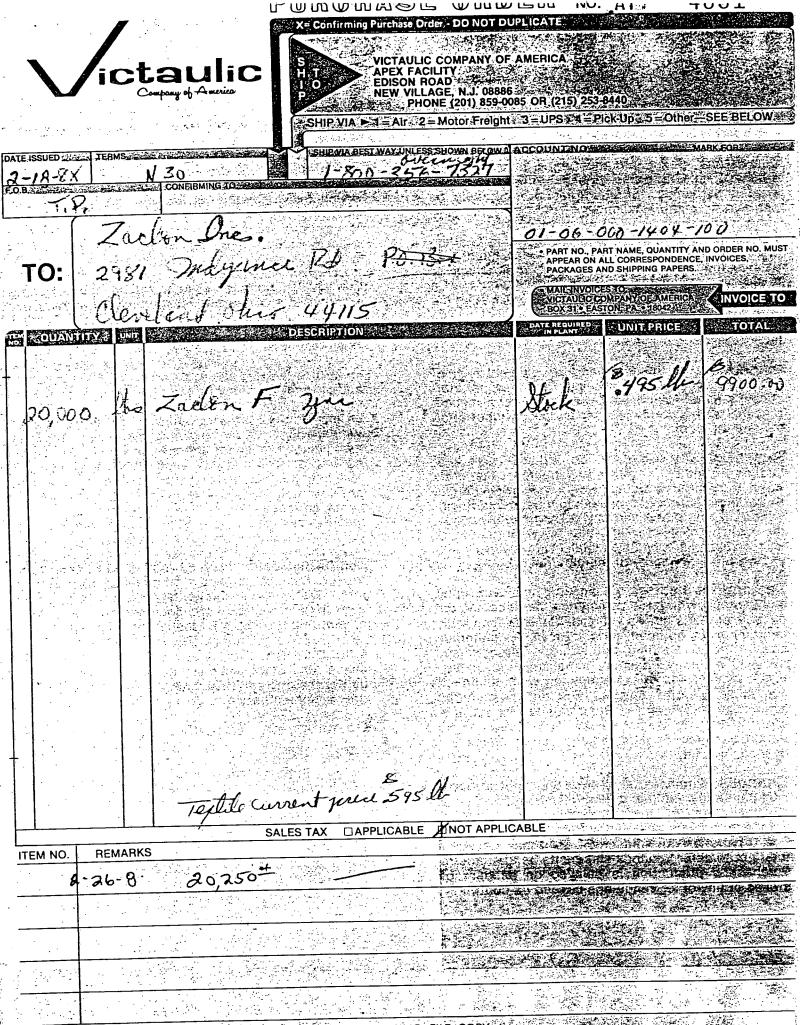
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My Commission Expires Dec. 31, 1994

APPENDIX I







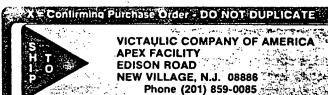
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NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

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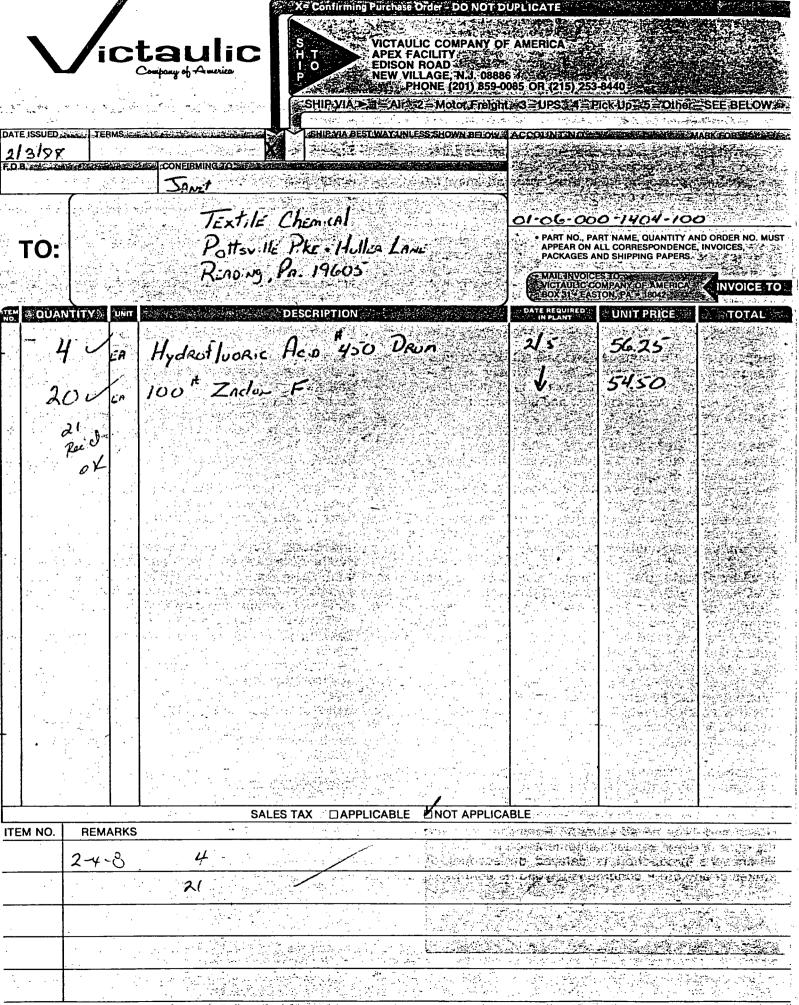




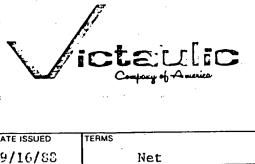
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| DATE | QUANTITY REC'D | BALANCE DUE | ITEM | DATE | QUANTITY REC'D | BALANCE DUE | | 12/14/98 | 146-664 | 144-000 | 12/34/38 | 144-976 | 12/34/38 | 144-976 | 12/34/38 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-976 | 144-9

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Phone (201) 859-0085

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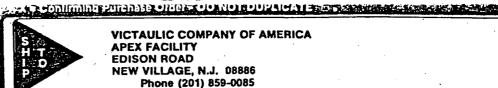
NEW VILLAGE, N.J. 08886 Phone (201) 859-0085

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VICTAULIC COMPANY OF AMERICA APEX FACILITY EDISON ROAD

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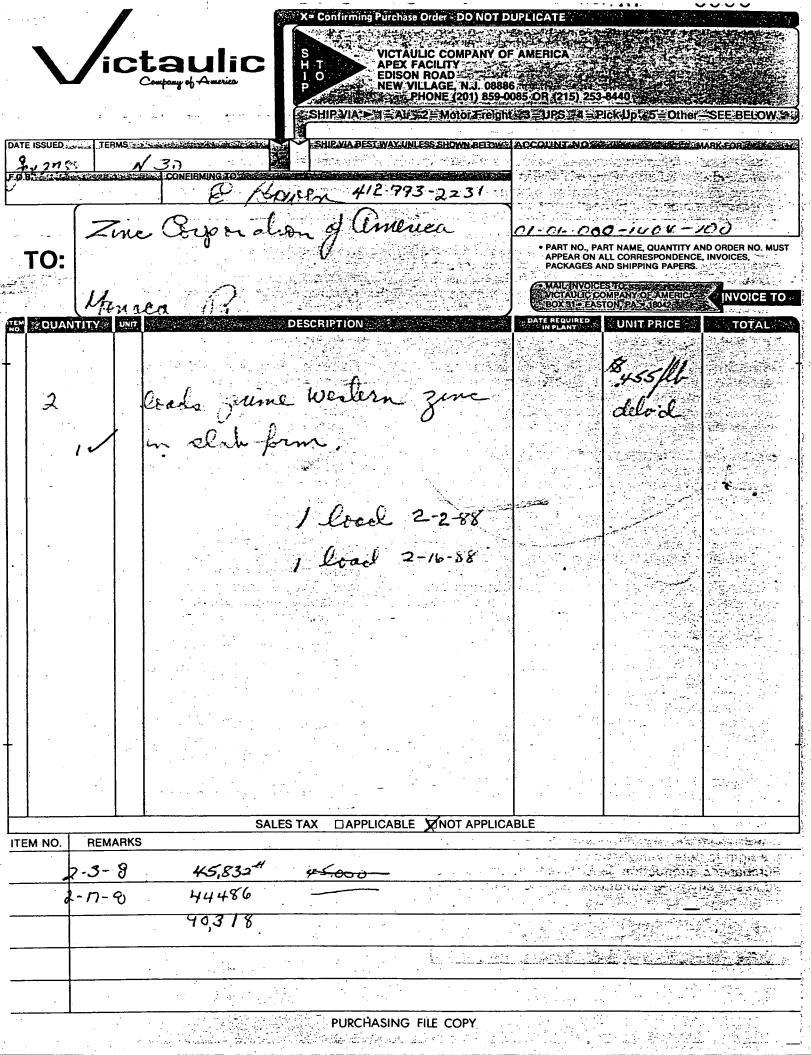
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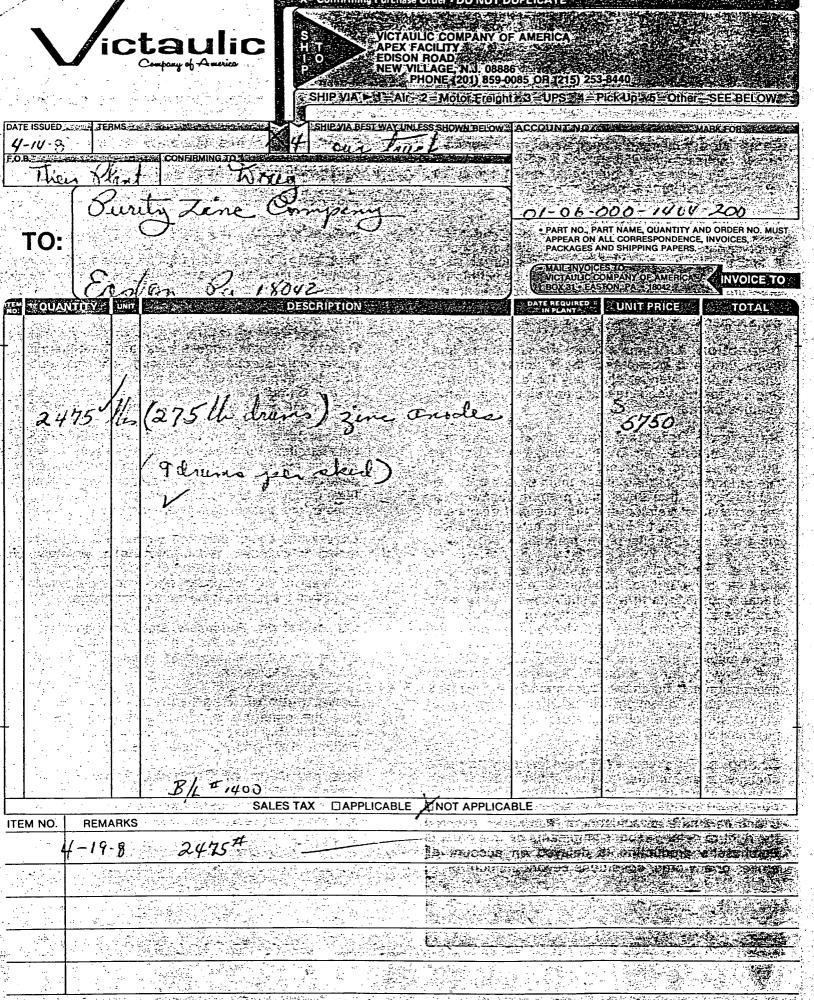
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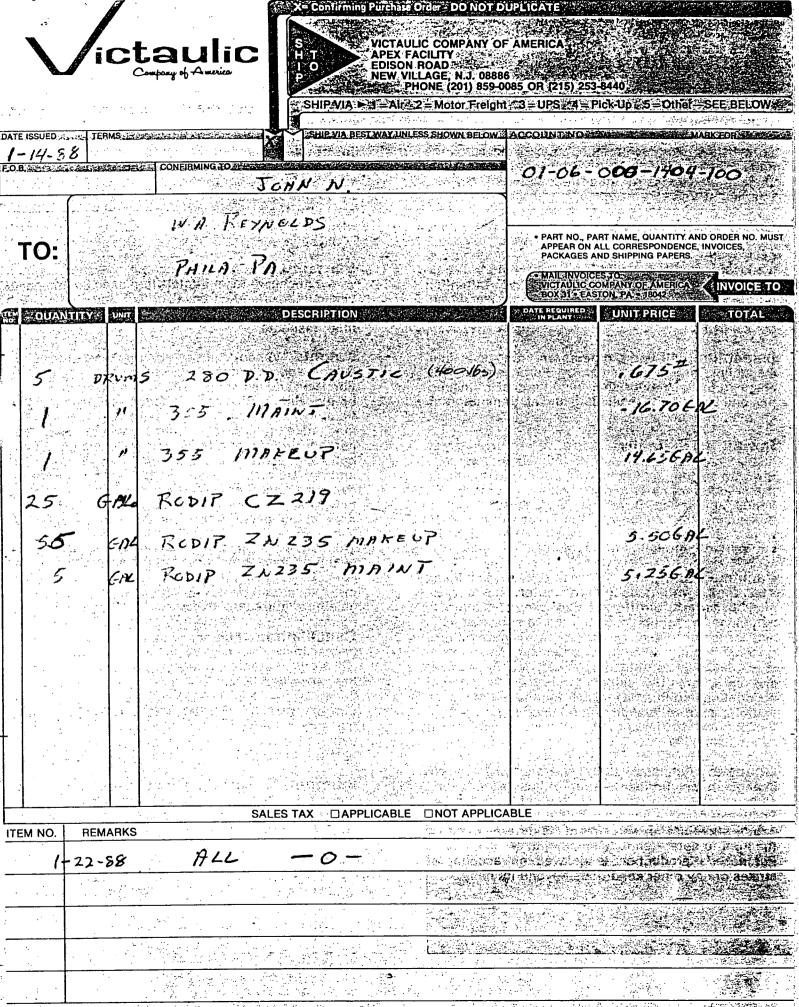


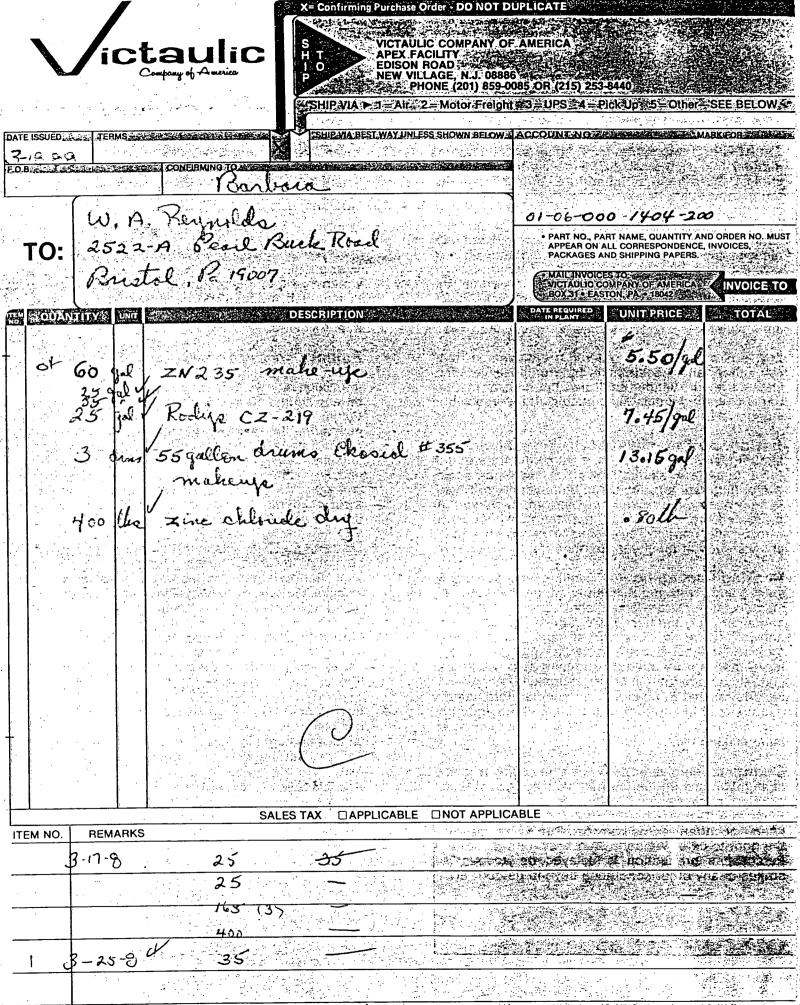


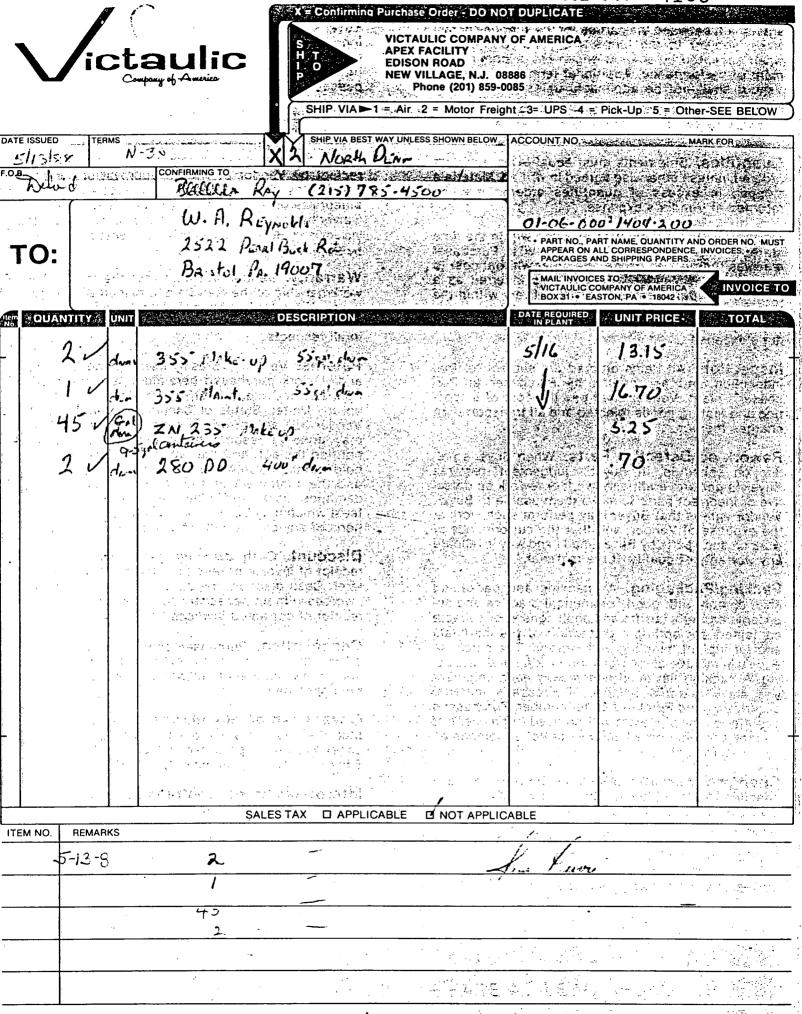


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S H T I O

VICTAULIC COMPANY OF AMERICA APEX FACILITY

EDISON ROAD NEW VILLAGE, N.J. 08886 Phone (201) 859-0085

X = Confirming Purchase Order - DO NOT DUPLICATE

"SHIP VIA ▶1 = Air::2 = Motor Freight :3= UPS :4 = Pick-Up ::5 = Other-SEE BELOW

SHIP VIA BEST WAY UNLESS SHOWN BELOW ACCOUNT NO ATE ISSUED 6/20/55 JOHN N. 01-06-000-1404-100 W.A. KEYNOLDS Co. PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS. 2522-A PEARL BUCK RD TO: BRISTOL, PA GAC DRUTH 5.50En SCAL CANS. ZNZ35 MAKEUP 55 CAL DEVING ZN235 MIAKEUP 5.25 Gpc PETASSIUM PERMANGANATE 41.71 28. 110 55 ENC DRUMES. ENCLASID 355 MAKEUP 13.15 EAK. 2 FREIDSID 355 MAINT. 15.08 GA 55 EAC DRUMS 2 ZN 235 MAKEUP 56AL. SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE REMARKS ALL ITEM 2+6 110 GAL

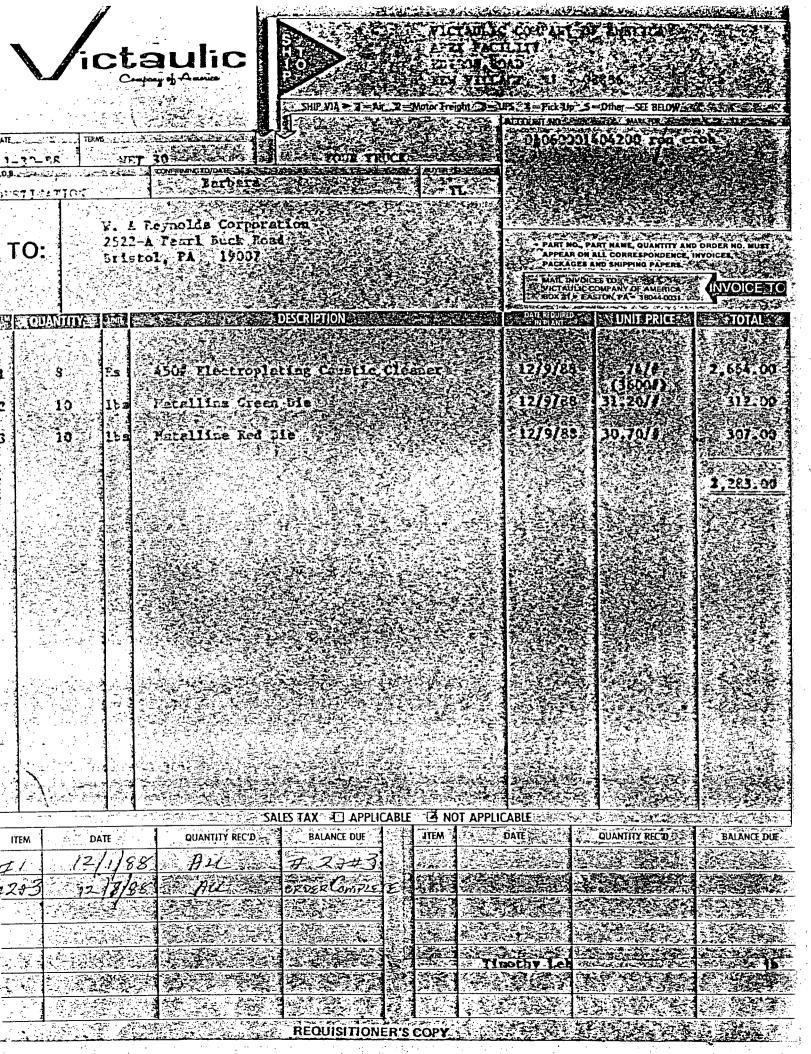
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SHIP VIA - 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

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SHIP VIA ► 1 = Air 2 = Motor Freight: 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

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VICTAULIC COMPANY OF AMERICA APEX FACILITY EDISON ROAD NEW VILLAGE, N.J. 08886 Phone (201) 859-0085

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VICTAULIC COMPANY OF AMERICA APEX FACILITY EDISON ROAD NEW VILLAGE, N.J. 08886 Phone (201) 859-0085

SHIP VIA BEST WAY UNLESS SHOWN BELOW ACCOUNT NO.

SHIP VIA -1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

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VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886

Phone (201) 859-0085 (1) Phone (201) 859-0085

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick+Up 55 = Other-SEE BELOW

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VICTAULIC COMPANY OF AMERICA APEX FACILITY EDISON ROAD

APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ▶ 1 = Air 2 = Motor Freight 3= UPS 47= Pick-Up 15 = Other-SEE BELOW

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VICTAULIC COMPANY OF AMERICA APEX FACILITY EDISON ROAD NEW VILLAGE, N.J. 08886 Phone (201) 859-0085

SHIP VIA -1 = Air: 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

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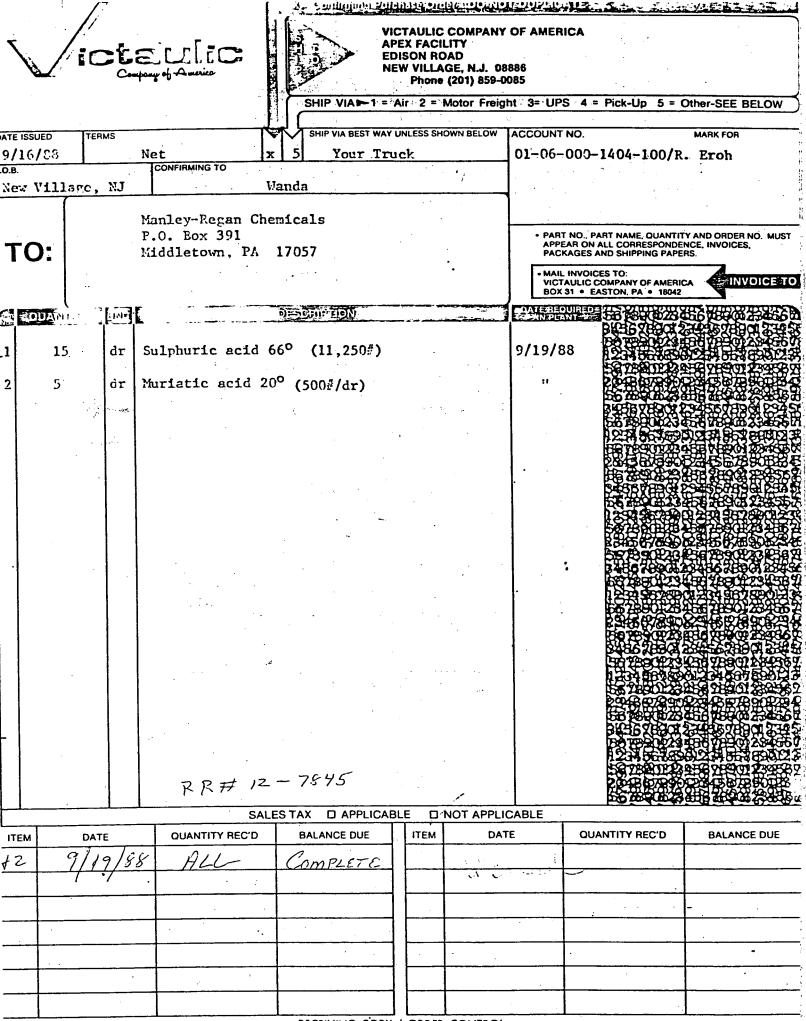


VICTAULIC COMPANY OF AMERICA APEX FACILITY EDISON ROAD NEW VILLAGE, N.J. 08886

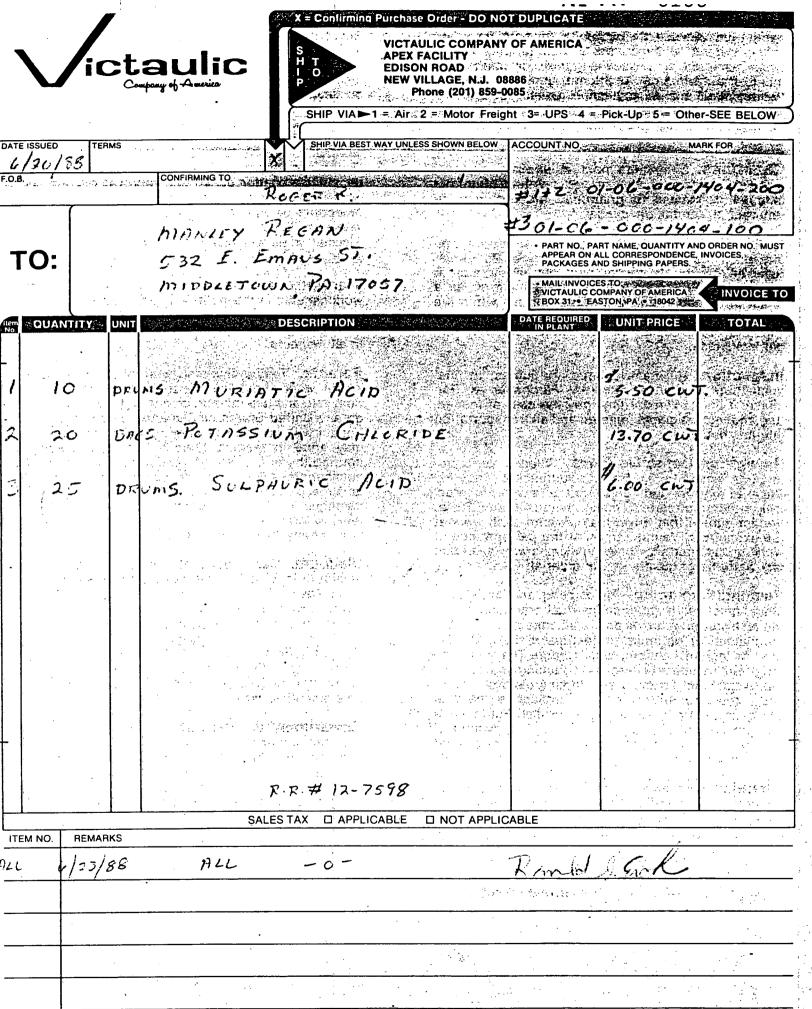
Phone (201) 859-0085

SHIP VIA -1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

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APPENDIX II



State of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES

CN 029 TRENTON, NEW JERSEY 08625

GEORGE G. McCANN, P.E. DIRECTOR

DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Victaulic Company of America Box 31, 4901 Kesslerville Road Easton, PA 18042

FEB 25 1988

Re: Apex Facility

NJPDES Permit No. NJ0099791

Dear Permittee:

Enclosed is the final NJPDES/Ground Water Discharge Permit to discharge pollutants to the ground waters of the State, issued in accordance with the New Jersey Pollutant Discharge Elimination System (NJPDES) Regulations, N.J.A.C. 7:14A-1 et seq. Violation of any condition of this permit may subject you to significant penalties.

This permit is being issued to Victaulic Company of ("Victaulic") and Franklin Industrial Park as co-permittees. reason for this is as follows. When the permit effective, Victaulic will be an active discharger and the owner of the discharge point, and Franklin Industrial Park will be the regulated unit, which is the place at which to ground water occurs. N.J.A.C. 7:14A-2.1(b) 1 discharge "The following persons shall obtain a NJPDES permit: who currently owns any part of a facility which person regulated activity) and a person who currently operates which includes (a regulated activity)." N.J.A.C. states further: 7:14A-2.1(c) "Whenever...more than one person is required to obtain a NJPDES permit for one or more activities a specific site, the Department shall issue a single permit which lists all these persons as permittees." Ιt is responsibility of the co-permittees to determine their respective roles in complying with the provisions of the permit.

During the public comment period mandated by N.J.A.C. 7:14A-8.1, Victaulic made several comments through its agent, Farer, Siegal, & Fersko. These comments have been summarized and responded to as follows:

Comment #1: Victaulic intends to install a waste water recycling

system, which will be operational by April 15, 1988. There will be no discharge for which a NJPDES permit is necessary.

Response: The NJPDES Regulations requires ground water monitoring systems for all discharges, past and present, actual or potential. The specific reference is N.J.A.C. 7:14A-6.1(a). In light of the fact that Victaulic has had a waste water discharge for several years and that Victaulic's discharge will be terminated after the Effective Date of Permit, the NJPDES permit will be issued.

Comment #2: In the Special Conditions, there is a requirement that Victaulic obtain an easement from Franklin Industrial Park for the discharge. Since Victaulic will be installing a treatment system, obtaining this easement will be unnecessary.

Response: The Special Conditions have been reworded so that obtaining the easement will only be necessary if the discharge is continued for more than 60 days from the Effective Date of Permit. Also, a requirement to apply for a Treatment Works Approval (TWA) will be included, should a waste water treatment system be installed.

Comment #3: It is a misnomer to call the abandoned tunnel system and basement of an old ruin an "infiltration-percolation lagoon".

Response: In the NJPDES permit application, Victaulic classified the unit as a "surface impoundment". The Department categorized this unit as an "infiltration-percolation lagoon" ("lagoon") rather than a "surface impoundment" ("impoundment") because the basement was not shown to meet the permeability criterion of 10⁻⁷ cm/sec or less. The discharge monitoring requirements shall remain a condition of the permit until the permittees submit a closure plan for the unit and a request for a major modification for closure.

Comments #4-7, & 9: The discharge into the tunnel system contains other discharges in addition to Victaulic's waste water discharge. The other discharges are industrial runoff from Franklin Steel Company, Henkel and McCoy, Inc., and perhaps others, and storm water from a drainage ditch, which collects from the county roads, railroads, and agricultural fields in the area. Ground water monitoring will not serve the purpose of identifying the effect of Victaulic's discharges on ground water quality, as it will not be possible to separate the effects of the other discharges from the effect of Victaulic's discharges.

Response: The ground water monitoring system defined in the permit includes parameters for analysis which were chosen as suitable parameters for monitoring the discharges from an electroplating facility. As such, the ground water monitoring system should serve its purpose of identifying the effects of Victaulic's discharges on ground water quality. To date, neither Victaulic nor Franklin Industrial Park have furnished the Department with evidence that there are other discharges to the regulated units defined in the permit. If other such discharges

as

Comment #8: In light of the discharges mentioned in Comments #4-7, it is impossible for the permittees to close the "lagoon" referred to in Comment #3, as would be required by the Additional General Conditions.

Response: The Additional General Conditions were included for Victaulic's storm water lagoon. The condition for closure for the waste water discharge is relegated to the Special Conditions. Regarding this closure condition, the Department will accept a closure plan which includes cessation of the discharge, analyses for applicable parameters of the soils and/or erosional residue in the tunnel system and basement, and infilling of the basement and tunnel system. If the tunnel system is not or cannot be blocked off, then discharge and ground water monitoring must be continued. It is the responsibility of Victaulic and Franklin Industrial Park as co-permittees to determine their respective involvements in all aspects of the permit, including the closure plans, and to request modifications of the permit as appropriate.

Comments #11, 12 & 14: The draft permit contains a requirement to sample the storm water drainage basin adjacent to the facility. The requirement to sample and the parameters for the analysis of samples are not related to any source of pollutants. Also, when the basin is dry, Victaulic will not be able to take a sample as required by the permit.

Response: Runoff from industrial areas is defined as a pollutant in N.J.A.C. 7:14A-1.9. A lagoon used to manage pollutants monitoring pursuant to N.J.A.C. 7:14A-6.7. parameters for analysis are primarily the conjugate bases acids which Victaulic uses. Victaulic stores the wastes from acids in above-ground tanks nearby before they are picked up and disposed of off-site. Petroleum Hydrocarbons is also a parameter, as the lagoon is near the facility's parking lot. is possible that there would be little or no rain during a month in which the permittee would be required to sample. In such case, the permittee must still submit a monitoring report with a statement that there was no discharge in the sampling month.

Comment #13: The water in the storm water runoff basin will be "perched water" and not representative of water discharged to ground water.

Response: This comment is inferred to mean that the water which will collect in the basin will not infiltrate but simply remain in the basin until it evaporates. As mentioned in the response to Comment #3, such a unit would be classified as a surface impoundment if it can be shown to have a permeability of 10⁻⁷ cm/sec or less. If such permeability data is submitted, the basin will be reclassified as an impoundment but must still be monitored, as both lagoons and impoundments are regulated units.

Comment #15: The Permit Page of the draft permit identifies

Victaulic as the owner of the premises. The public notice identifies Franklin Industrial Park as the owner of the premises which receives the groundwater discharge. The draft permit is not clear in its description of the ownership of the premises for which the permit is issued.

Response: The area which receives ground water discharge is owned in part by Victaulic and in part by Franklin Industrial Park. The Permit Page has been modified to reflect this in the Final Permit.

Be advised that any request for an adjudicatory hearing to reconsider or contest the conditions of this permit must be made within 30 calendar days following your receipt of this permit. The request should be made to:

Administrator NJDEP Division of Water Resources Water Quality Management Element CN-029 Trenton, New Jersey 08625

If you have any questions on this action, please contact Michael Infanger of the Bureau of Ground Water Quality Management at (609) 292-0424.

Sincerely,

Robert Berg, Chief/

Bureau of Ground Water Quality Management

WQM282 Enclosures

FACT SHEET

FOR THE NJPDES PERMIT TO DISCHARGE INTO THE GROUND WATERS OF THE STATE

NAME AND ADDRESS OF APPLICANTS:

Victaulic Company of America P.O. Box 31 Easton, PA 18042 Franklin Industrial Park 489 Frelinghuysen Ave. Newark, NJ 07114

NAME AND ADDRESS OF FACILITIES WHERE DISCHARGE OCCURS:

Apex Facility
Edison Road
Franklin Township
Lot No. 1, Block No. 27
New Village
Warren County, NJ 08808

Franklin Industrial Park Edison Road Franklin Township Lot No. 12, Block No. 41 New Village Warren County, NJ 08808

RECEIVING WATER:

Ground waters of the state. The discharge is to undifferentiated Kittatinny Group of Cambro-Ordovician age.

DESCRIPTION OF FACILITIES:

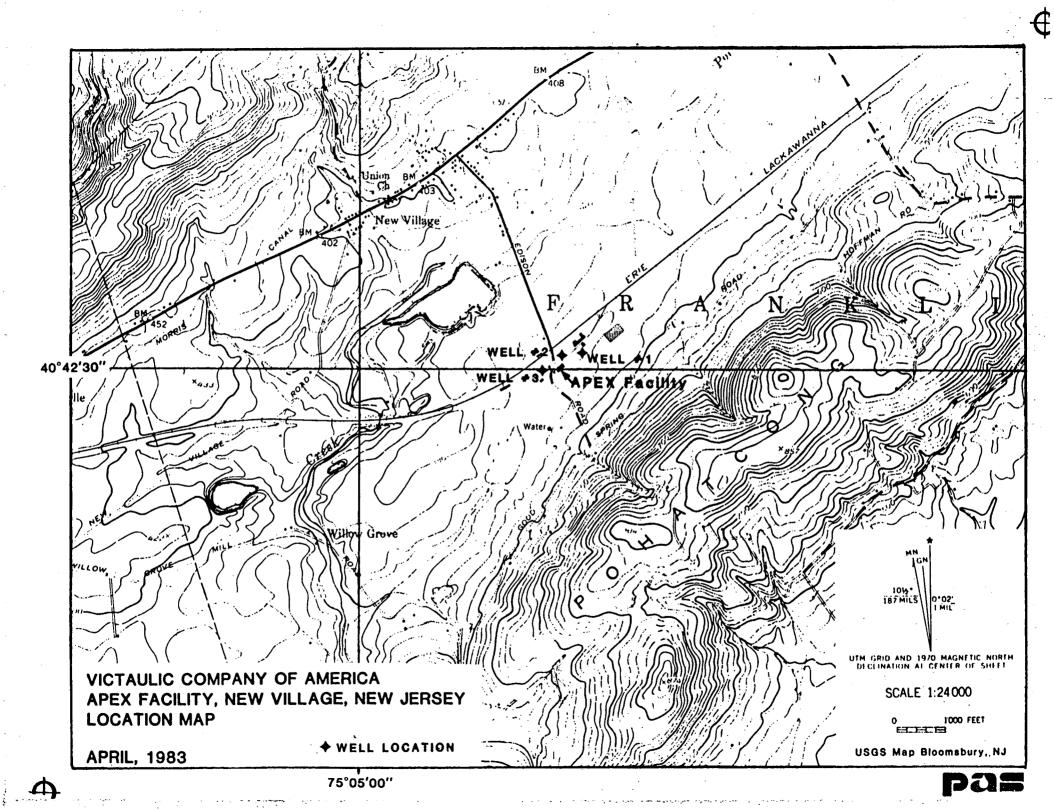
The facility finishes iron and steel pipe couplings and other items by rack and barrel zinc plating and hot dip galvanizing. The waste water from the plating operation discharges into the tunnel complex of the abandoned cement plant through the basement of the Apex facility. The discharge drains through the tunnel complex and collects in the basement of an abandoned building approximately 1500' from the facility. The discharge percolates into the ground water both in the tunnel and in the abandoned building's basement. The property which contains the abandoned building is Lot No. 12, Block No.41 of Franklin Township and is owned by Franklin Industrial Park of Newark, New Jersey. The Apex Facility also has a small lagoon in the parking lot for stormwater runoff.

DESCRIPTION OF DISCHARGE:

The discharge consists of water used to rinse the products, before and after the plating process, and storm runoff from the parking lot.

PERMIT CONDITIONS:

Issue the NJPDES Permit with the attached general and special conditions.





New Jersey Pollutant
Discharge Elimination System

The New Jersey Department of Environmental Protection hereby restricts and controls the discharge of pollutants to waters of the State from the subject facility/activity in accordance with applicable laws and regulations. The permittee is responsible for complying with all terms and conditions of this authorization and agrees to state from the subject facility/activity in accordance with applicable laws and regulations. The permittee is responsible for complying with all terms and conditions of this authorization and agrees to state for men subject facility/activity in accordance with applicable laws and regulations. The permittee is responsible for complying with all terms and conditions of the state.

PERMIT NUMBER NJ0099791

Permittee
VICTAULIC COMPANY OF AMERICA BOX 31,14901 KESSLERVILLE ROAD EASTON, PA 18402

Property Owner
SEE TOWNERS* BELOW

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· 2.	Cocklist					
3.	Part I (General Conti	tions for All KUP	DES Discharge Permi	its)		
4.	Pert II - Additional	Seneral Condition	s for the types of	NJ7065 Permits di	ected as fellows:	
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State of New Jersey Department of Environmental Protection Division of Water Resources

GENERAL CONDITIONS FOR ALL NJPDES/DGW PERMITS

The New Jersey Pollutant Discharge Elimination System (NJPDES) regulations (N.J.A.C. 7:14A-1 et seq.) as authorized by the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A et seq.) identify requirements for all Discharge to Ground Water Permits. Information concerning these general permit requirements may be found in the following sections of the NJPDES regulations.

Permit Requirem	ment	Citation		
General Information	# 	Subchapter	1	
General Requirements for NJPDES Permit	the	Subchapter	2	
Additional Requirements an Industrial Waste Management Facility	for	Subchapter	4	
Additional Requirements Underground Injection Control Program	for	Subchapter	5	
Additional Requirements Discharges to Ground Water (DGW)	for	Subchapter	6	
Procedures for Decision	Making	Subchapter	7	
Public Comments and Publ	ic Notice	Subchapter	8	
Filing Requirements for NJPDES Permits		Subchapter	10	
Public Access to Information Requirements for Department Determination of Conf.	rtmental	Subchapter	11	

ADDITIONAL GENERAL CONDITIONS FOR INDUSTRIAL DISCHARGES BY INFILTRATION-PERCOLATION LAGOONS

I. Construction Requirements

A. General Requirements

- 1. The infiltration-percolation lagoon(s) shall be designed, constructed, maintained and operated to prevent overtopping resulting from normal or abnormal operations, overfilling, wind and wave action, precipitation, run-on and run-off, malfunctions of level controllers, alarms and other equipment and human error.
- 2. All infiltration-percolation lapoons shall be fenced to prevent unauthorized access or entry.
- 3. For all new infiltration-percolation lapoons, when flow is to, from or between lagoons, all interconnections shall be piped or lined with an impervious material which will prevent degradation of the lapoon banks, dikes or bottom. All flow shall be directed along the longest axis of the lapoon(s).
- 4. For new construction, all piping, manholes, outfalls, etc., must be installed prior to the construction of the foundation, banks or dikes.
- 5. When computed on a 30 day average, the hydraulic loading to the infiltration-percolation lagoon(s) shall be equal to or less than the saturated hydraulic conductivity (Ksat) for the most restrictive soil horizon within 15 feet of the surface.
- 6. The infiltration-percolation lagoon(s) shall have banks or dikes that are designed, constructed and maintained with sufficient structural integrity to prevent massive failure of the dikes. For new construction, the structural integrity of the banks or dikes shall be certified by the signature and seal of a New Jersey licensed Professional Engineer. Said certification shall be supplied to the Department prior to the discharge of any pollutants to the infiltration-percolation lagoon.
- 7. For new construction, immediately after installation of soil-based or admixed foundations,

banks or dikes. they must be inspected for imperfections including lenses, cracks, channels, root holes or other structural defects that may cause significant non-uniformity in infiltration-percolation of the permeability Said significant non-uniformities lapoon(s). be corrected before pollutants are shall infiltration-percolation discharged to the lapoon(s).

II. Operation and Maintenance

A. General Requirements

- 1. The permittee shall perform a physical inspection of all visible portions of the infiltration-percolation lagoon(s) on at least a weekly basis and after storms to:
 - a. Ensure that the foundation, banks and dikes have remained structurally sound:
 - b. Detect evidence of any deterioration, malfunctions or other improper operation of the over-topping control system;
 - c. Detect erosion, undermining or other signs of deterioration in foundation(s), banks, dikes or other containment devices;
 - d. When malfunctions or failures are observed or suspected, the permittee shall comply with Section 14 (Reporting Non-Compliance) in the General Conditions for all NJPDES Permits; and
 - e. The permittee shall report to the Department on at least an annual basis the results of all inspections.
- The permittee shall submit to the Department on an annual basis within the first quarter of each year a list of all material(s) discharged to the infiltration-percolation lagoon(s).
- 3. Prior to the removal and disposal of any sludge that has accumulated on the bottom of the infiltration-percolation lagoon(s), the permittee shall at his own expense have an EP Toxicity Test (or other such test as the Department may currently require) performed by a New Jersey

certified laboratory. The results of the EP Toxicity (or other such approved test) shall be forwarded to the Bureau of Hazardous Waste Manifest and Classification of the Division of Waste Management to determine the classification of the sludge. Based on the results of the sludge characterization test(s), the permittee shall dispose of the sludge in a manner approved by the Department.

4. After any repairs are made to the infiltrationpercolation lagoon(s) or after any extended period
of time (Minimum of 6 months) during which the
infiltration-percolation lagoon(s) is (are) not in
service, the permittee shall obtain a
certification from a qualified New Jersey licensed
Professional Engineer that the lagoon banks,
foundation and dikes (including that portion of
any bank or dike which provide freeboard) have
structural integrity. Said certification shall be
signed and sealed by the New Jersey licensed Professional Engineer and shall establish in particular that the lagoon(s) will withstand the physical
and chemical stresses of resumed operation.

B. Contingency Requirements

- Within 6 months of the effective date of the permit, the permittee shall develop a worst-case emergency repair plan which shall be submitted to the Department for review and approval. emergency plan shall include, at a minimum, provisions for such events as the collapse or overrun of a bank or berm, failure of the foundation, or other such event which necessitates the removal of the contents of the lagoon(s). The permittee shall describe in detail the methods by which the contents of the lagoon(s) will be emptied and disposed. This contingency plan shall, upon Department approval, be kept on the facility premises at all times. Further, said plan shall be forwarded to the appropriate local povernment agencies.
- 2. When an infiltration-percolation lagoon must be removed from service, the permittee shall immediately shut off the flow or stop the addition of substances to the lagoon, contain any surface leakage which has occurred or is occurring, stop the leak, take any and all necessary steps to stop or prevent catastrophic failure, notify the

Department immediately by telephone at (609) 292-7172 and in writing within 7 days after detecting the problem. If a leak or failure cannot be stopped by any means within 24 hours after detection, the lagoon(s) shall be handled pursuant to the worst-case contingency plan as required in paragraph II.B.1. of these Additional General Conditions.

- 3. No infiltration-percolation lagoon that has been removed from service in accordance with the requirements of this section may be restored to service unless the portion(s) of the lagoon(s) which was (were) failing is repaired.
 - a. If the lapoon(s) was (were) removed from service due to actual or imminent bank or dike failure, the structural integrity shall be certified as required in section II.A.4. (Operation and Maintenance) of these Additional General Conditions for Industrial Discharges by Infiltration-Percolation.
 - b. The Department reserves the right to inspect the infiltration-percolation lagoon(s) prior to, during and after repairs are made. If, in the judgement of the Department, the original lagoon system or portions of the system were insufficient or inadequate, the permittee shall install a new upgraded system subsequent to review and approval by the Department.
 - c. An infiltration-percolation lagoon that is to be removed from service shall be closed in accordance with a NJPDES/DGW Closure Post Closure Permit.

C. Closure Requirements

1. The permittee shall, no later than 180 days prior to the anticipated closure of the infiltration-percolation lagoon(s), submit to the Department an application for a NJPDES/DGW Closure-Post Closure permit. Said application shall include and identify all closure and post-closure activities that will be conducted prior to and subsequent to closure of the infiltration-percolation lagoon(s).

Discharge Sample I01

Discharge Limitations and Monitoring Requirements

The sample shall be taken at the stormwater runoff lagoon. All sampling shall be performed according to the methodology specified in the Department's <u>Field Procedures Manual for Water Data Acquisition</u>.

PARAMETER	DISCHARGE LIMIT	SAMPLING MONTH	SAMPLE TYPE *1	REPORTING MONTH
pH, s.U.	5-9	April Oct	Grab	May Nov
Chloride, mg/l	500	April Oct	Grab	May Nov
Fluoride, mg/l	4.0	April Oct	Grab	May Nov
Nitrate-Nitrogen, mg/l	20	April Oct	Grab	May Nov
Petroleum Hydrocarbons, mg/l	20	April Oct	Grab	May Nov
Phosphate, mg/l		April Oct	Grab	May Nov
Sulfate, mg/l	500	April Oct	Grab	May Nov
Total Dissolved Solids (TDS), mg/l	1000	Äpril Oct	Grab	May Nov
Zinc, mg/l	10	April Oct	Grab	May Nov

The permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. Discharge monitoring reports are to be sent to the same address as ground water monitoring reports as cited in Part III-DGW, Page 5 of 10.

It shall be solely the permittee's responsibility to maintain an adequate supply of the required report forms.

NOTES:

*1 "Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

Discharge Sample I02

Discharge Limitations and Monitoring Requirements

The sample shall be taken at the discharge point of wastewater to the tunnel system. All sampling shall be performed according to the methodology specified in the Department's <u>Field Procedures Manual for Water Data Acquisition</u>.

· · · · · · · · · · · · · · · · · · ·	DISCHARGE	SAMPLING	SAMPLE	REPORTING
PARAMETER	LIMIT	MONTH	TYPE *1	MONTH
Flow, GPD		JanAprJul0ct	Continuous	FebMayAugNov
pH, S.U.	5-9	JanAprJul0ct	Grab	FebMayAugNov
Ammonia-Nitrogen (NH3-N), mg/l	1.0	JanAprJulOct	Grab	FebMayAugNov
Arsenic, mg/l	0.1	JanAprJulOct	Grab	FebMayAugNov
Barium, mg/l	2.0	JanAprJulOct	Grab	FebMayAugNov
Cadmium, mg/l	0.02	JanAprJulOct	Grab	FebMayAugNov
Cyanide, mg/l	0.4	JanAprJul0ct	Grab	FebMayAugNov
Chloride, mg/l	500	JanAprJulOct	Grab	FebMayAugNov
Chromium (Hex.), mg/l	0.1	JanAprJul0ct	Grab	FebMayAugNov
Copper, mg/l	2.0	JanAprJulOct	Grab	FebMayAugNov
Lead, mg/l	0.1	JanAprJulOct	Grab	FebMayAugNov
Manganese, mg/l	0.1	JanAprJulOct	Grab	FebMayAugNov
Mercury, mg/l	0.004	JanAprJulOct	Grab	FebMayAugNov
Nickel, mg/l	··	JanAprJulOct	Grab	FebMayAugNov
Nitrate Nitrogen, mg/l	20.0	JanAprJulOct	Grab	FebMayAugNov
Phosphate, mg/l		JanAprJulOct	Grab	FebMayAugNov
Selenium, mg/l	0.02	JanAprJulOct	Grab	FebMayAugNov
Sulfate, mg/l	500	JanAprJulOct	Grab	FebMayAugNov

Total Dissolved Solids (TDS), mg/l	1000	JanAprJulOct	Grab	FebMayAugNov
Total Volatile Organics by GC/MS	*2	JanAprJulOct	Grab	FebMayAugNov
Total Xylenes, ppb	*3	JanAprJulOct	Grab	FebMayAugNov
Zinc, mg/l	10.0	JanAprJulOct	Grab	FebMayAugNov

The permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. Discharge monitoring reports are to be sent to the same address as the ground water monitoring reports as cited in Part III-DGW, Page 5 of 10.

It shall be solely the permittee's responsibility to maintain an adequate supply of the required report forms.

NOTES:

- *1 "Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.
- *2 40 CFR Part 136-Method 624 shall be used to identify and monitor for the volatile organic compounds identified in Appendix B of the NJPDES Regulations for the initial round sampling. Included in this analysis shall be the identification of 15 unknown peaks. The GC/MS method 624 utilized until the concentration of constituents reach the corrective action criteria or the method detection limit, whichever is higher. After the initial round of sampling, 40 CFR Part 136-Methods 601 and 602 may be used to identify and monitor for volatile organic compounds unless permittee is directed by the Department to use a different method. Additional information concerning volatile organic compound limitations and classifications can be found in the following Ground Water Monitoring Requirements and Limitations Table (Part III-DGW, Page 8 of 10).

*3

40 CRF Part 136-Method 602 shall be used to identify and monitor for Total Xylenes. Xylene shall be considered a Group B-1 compound as described in Note *2 of the Ground Water Monitoring Requirements And Limitations Table (Part III, Page 8 of 10).

GROUND WATER MONITORING REQUIREMENTS AND STANDARDS

- 1. The permittee shall install four (4) ground water monitoring wells. The wells must be installed within 30 days of the Effective Date of the Permit. The wells must be installed by a licensed New Jersey well driller pursuant to N.J.A.C. 58:4A-6 and constructed according to the attached Department specifications (Attachment 1). A valid New Jersey permit to drill a well must be obtained from the Water Allocation Office at (609) 984-6831 prior to the installation of any ground water monitoring wells.
- 2. The locations of all the ground water monitor wells required to be sampled or monitored, including existing or proposed wells, are shown on Attachment 2. Ground water monitor wells shall be located within a reasonable distance of each proposed location, and the location must be approved of by a Department geologist.
- 3. The permittee shall provide the Bureau of Ground Water Quality Management a minimum of two weeks notification prior to the installation of any ground water monitoring wells required by this permit.
- 4. A Ground Water Monitoring Well Certification (Forms A and B) shall be completed for each existing and proposed ground water monitoring well within 30 days of the installation of the ground water monitoring wells. Information for each well must be shown on a separate form. The Ground Water Monitoring Well Certifications shall be submitted to:

NJDEP-Division of Water Resources Bureau of Ground Water Quality Management CN-029 Trenton, NJ 08625

5. For an existing well, if information required on the Ground Water Monitoring Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this permit, the Department reserves the right to require the replacement of that well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample from the portion of the aquifer which the Department requires to be sampled. Any replacement well must be installed within a 10 foot radius of the existing

- well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office at (609) 984-6831.
- 6. Within one-hundred and twenty (120) days of the Effective Date of the permit, the permittee shall identify to the Department the location of all ground water monitoring wells, piezometers, and supply wells on a plot plan drawn to a scale suitable to the Department.
- 7. Unless dedicated sampling equipment is used, the permittee shall sample the ground water monitoring wells in the following order:
 - 1. MW-1
 - 2. MW-2
 - 3. MW-3
 - 4. MW-4
- 8. When the concentration of any permit required sampling parameter exceeds the standard which has been identified for that parameter, the permittee shall comply with the requirements of N.J.A.C. 7:14A-6.15(j), Compliance Monitoring.
- 9. The permittee shall complete the forms required on the "Monitoring Report Transmittal Sheet" (Form T-VWX-014) which is included as a part of this permit. Failure to submit sampling data on the forms required on the "Monitoring Report Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. It shall be the permittee's sole responsibility to maintain an adequate supply of the required report forms. All monitoring reports shall be sent to:

Department of Environmental Protection Division of Water Resources Water Quality Management Element Bureau of Permits Administration CN-029 Trenton, NJ 08625

ATTN: Monitoring Well Reports

- 10. Satisfactory ground water wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards. Each ground water monitoring well must have the elevation of the top of the casing and the well permit number permanently marked on the well casing.
- 11. The owner or operator shall inspect each ground water monitoring well on a weekly basis for structural integrity The permittee shall maintain a complete and/or damage. inspection indicating record dates of inspection, inspector's name, and conditions observed. These records shall be made available to the Department upon request. Failure to maintain or submit records upon request shall be a violation of the conditions of this permit.
- 12. If the monitoring wells are damaged or are otherwise rendered inadequate for their intended purpose, the Administrator, Water Quality Management Element, shall be notified within five (5) days in writing indicating:
 - (a) Which wells were damaged or rendered inadequate for their intended use;
 - (b) The cause and extent of damage or the reason for the inadequacy;
 - (c) If the sampling schedule as required in this permit will be violated or if the results of the sampling may reasonably become misleading;
 - (d) The date that the well will again be operational. Damaged wells must be replaced or repaired within thirty (30) days after the damage has occurred. The wells must be sampled within five (5) days after they have been installed. A replacement well must meet the construction requirements established by the Department. A valid New Jersey well permit is required prior to the installation of the replacement well;
 - (e) The next date that the well will be sampled;

Failure to follow these procedures is a violation of this permit and may subject the permittee to the provisions of N.J.S.A. 58:10A-10.

13. The permittee shall sample a total of four (4) ground water monitoring wells according to the schedule below. All ground water elevations <u>must</u> be determined prior to evacuation and sampling of the wells. Sampling of the wells shall be

performed according to the methodology specified in Section 6.12 of the NJPDES regulations and the latest edition of the Department's <u>Field Procedures Manual for Water Data Acquisition</u>. The manual may be obtained by contacting the Office of Quality Assurance at (609) 292-0427. All samples must be analyzed by a New Jersey Certified laboratory.

TABLE 1. GROUND WA	TER MO	NITORI	NG REQUIREMENT	rs and L	<u>IMITATIONS</u>
PARAMETER	STAN	DARD	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
Elevation of top of well casing (to be once but reported as	determ	ined	JanAprJul0ct	N/A	FebMayAugNov
Depth to Water Table of casing prior to			JanAprJulOct	N/A	FebMayAugNov
Depth to Water Table original ground leve to sampling			JanAprJul0ct	N/A	FebMayAugNov
Ammonia-Nitrogen	0.5	ppm	JanAprJulOct	grab *1	FebMayAugNov
Arsenic & Compounds	0.05	ppm	JanAprJulOct	grab	FebMayAugNov
Barium	1.0	ppm	JanAprJul0ct	grab	FebMayAugNov
Cadmium	0.01	ppm	JanAprJulOct	grab	FebMayAugNov
Chloride	250	ppm	JanAprJulOct	grab	FebMayAugNov
Chromium (Hex.) & Compounds	0.05	ppm	JanAprJulOct	grab	FebMayAugNov
Copper	1.0	ppm	JanAprJulOct	grab	FebMayAugNov
Cyanide	0.2	ppm	JanAprJulOct	grab	FebMayAugNov
Fluoride	2.0	ppm	JanAprJulOct	grab	FebMayAugNov
Iron	0.3	ppm	JanAprJul0ct	grab	FebMayAugNov
Lead & Compounds	0.05	ppm	JanAprJulOct	grab	FebMayAugNov
Manganese	0.05	ppm	JanAprJul0ct	grab	FebMayAugNov
Mercury & Compounds	0.002	ppm	JanAprJulOct	grab	FebMayAugNov
Nitrate Nitrogen	10.0	ppm	JanAprJul0ct	grab	FebMayAugNov

рН	5-9	SU	JanAprJulOct	grab	FebMayAugNov
Phosphate, Total		ppm	JanAprJulOct	grab	FebMayAugNov
Selenium & Compound	s 0.01	ppm	JanAprJulOct	grab	FebMayAugNov
Silver & Compounds	0.05	ppm	JanAprJul0ct	grab	FebMayAugNov
Sulfate	250	ppm	JanAprJul0ct	grab	FebMayAugNov
Total Dissolved Solids (TDS)	500	ppm	JanAprJulOct	grab	FebMayAugNov
Total Volatile Organics by GC/MS	*2	ppb	Apr Oct	grab	FebMayAugNov
Total Xylenes, ppb	*3	ppb	Apr Oct	grab	FebMayAugNov
Zinc & Compounds	5	ppm	JanAprJul0ct	grab	FebMayAugNov
NOTES:					

*1
"Grab" means an individual sample of at least 100
milliliters collected over a period not exceeding 15
minutes.

*2

- A. Volatile Organic Toxic Pollutants as defined in N.J.A.C. 7:14A-1.1 et. seq., Appendix B can be reasonably divided into two classes; (A) carcinogens and (B) non-carcinogens.
 - i. Any chemical demonstrated to be carcinogenic to humans or experimental animals in a test peer-reviewed by either the National Toxicology Program of the U.S. Department of Health and Human Services or the International Agency for Research on Cancer will be considered to be a carcinogen (NJDEP Group A).
 - ii. Chemicals which do not meet the criteria for placement in NJDEP Group A will be placed in NJDEP Group B. NJDEP Group B is further divided into Group B-1, chemicals for which no State or Federal maximum contaminant level (MCL) exists, and NJDEP Group B-2, chemicals for which a State or Federal MCL exists. Where both a State and Federal MCL exists, the more stringent shall apply. If any applicable State or Federal standard, limitation or prohibition is more stringent than any limitation on the

pollutant then the State or Federal MCL, the more stringent shall apply. Chemicals in NJDEP Group B-1 which do not currently meet the criteria for placement in NJDEP Group B-2 if they meet the criteria for placement in NJDEP Group B-2 in the future. Chemicals which do not currently meet the criteria for placement in NJDEP Group A will be placed in NJDEP Group B-1 or NJDEP Group B-2 and shall be transferred to NJDEP Group A if they meet the criteria for placement in NJDEP Group A in the future.

Currently, based upon scientific consensus, the following shall comprise NJDEP Group A and NJDEP Groups B-1 and B-2:

NJDEP Group A

acrylonitrile
benzene
carbon tetrachloride
chloroform
1,2-dichloroethane
1,1-dichloroethylene
methylene chloride
1,1,2,2-tetrachloroethane
tetrachloroethylene
trichloroethylene
vinyl chloride
1,1,2-trichloroethane

NJDEP Group B-1

acrolein
bromoform
chlorobenzene
chlorodibromomethane
chloroethane
2-chloroethylvinyl ether
dichorobromomethane
1,1-dichloroethane
1,2-dichloropropane
1,3-dichloropropylene
ethylbenzene
methyl bromide
methyl chloride
toluene
1,2-trans-dichloroethylene

MCL*
NJDEP Group B-2 (ppb)

1,1,1-trichloroethane 200

*EPA Proposed

- B. Chemical compounds classified in NJDEP Group A are carcinogens and pose some level of risk even at low doses.
- C. 40 CRF Part 136-Method 624 shall be used to identify and monitor for the volatile organic compounds identified in Appendix B of the NJPDES Regulations for the initial round of sampling. Included in this analysis shall be the identification of 15 unknown peaks. Thereafter, 40 CFR Part 136-Methods 601 and 602 may be used to identify and monitor for volatile organic compounds unless permittee is directed by the Department to use Method 624.

Corrective Action Criteria

- A. The corrective action criteria for ground water of 5 parts per billion (ppb) shall apply to individual chemical compounds classified in NJDEP Group A. Hence, the ambient concentration of any compound in NJDEP Group A shall not exceed 5 parts per billion in ground water.
- B. The corrective action criteria for ground water of 50 parts per billion total Volatile Organic Toxic Pollutants shall apply to the sum of all compounds listed in NJDEP Group A and NJDEP Group B-1. Hence, the ambient concentration of the sum of all compounds listed in NJDEP Groups A and B-1 shall not exceed 50 parts per billion in ground water.
- C. The corrective action criteria for ground water for the compounds listed in NJDEP Group B-2 shall be equal to or less than their individual State or Federal MCL, the more stringent shall apply. Hence, the ambient concentration of any compound in NJDEP Group B-2 shall not exceed its MCL in ground water.

*3

40 CRF Part 136-Method 602 shall be used to identify and monitor for total xylene. Xylene shall be considered a Group B-1 compound as described in Note *2. The corrective action criteria as described in Note *2 shall include total xylene as a Group B-1 volatile organic chemical.

Rock Monitor Well Specifications*

Site Name: Apex Facility

Site Name: Apex Facility Attachment 1 Location: Edison Road, New Village Date: April 1, 1988 Steel Cap With Padlock Air Vent 2 Feet 6" Steel Casing Securely Set In Grout Ground Surface 3 Foot Cement Collar OVERBURDEN Casing Seal - granular bentonite slurry (1.5 lb/gal potable water tremie, pressure, or displacemen 10" Bore Hole grouted into hole (See Item #4.

Casing lust Be
Seated 1 Feet
Into Competent Rock

COMPETENT BEDROCK

Sedrock Surface

6" Open Hole ____

NOT TO SCA

REQUIREMENTS:

WEATHERED BEDROCK

1. Notification to the NJDEP is required two (2) weeks prior to drilling.

2. State well permits are required for each monitor well constructed by the driller. Report "use of well" on well permit application. Permit number must be permanently affixed to each monitor well.

10

-Feet

- 3. Oversize borehole, minimum four (4) inches greater than casing diameter drilled through overburden with casing sealed ten (10) feet into competent rock unless shown otherwise above.
- 4. Approved high grade, sodium base, well-sealant type, granular bentonite must be used to seal casing. Casing sealant and drilling fluids must be mixed with potable water.

5. Well must be developed upon completion for a minimum of one (1) hour or to yield a turbid-free discharge.

6. The driller must maintain an accurate written log of all materials encountered in each hole, record all construction details for each well, and record the depth of major water bearing fracture zones. This information must be submitted to the Office of Water Allocation as required by N.J.S.A. 58:4A.

7. Cement collar must be installed a minimum of one (1) hour after casing seal has been emplaced.

B. Locking caps must be provided to secure each well.

9. Top of each well casing (excluding cap) must be surveyed to the nearest hundredth foot (0.01) by a licensed surveyor. The casing must be permanently marked at the point surveyed. The well should be numbered clearly on the casing. A detailed site map with well locations and casing elevations must be submitted to the Bureau of Ground Water Quality Management

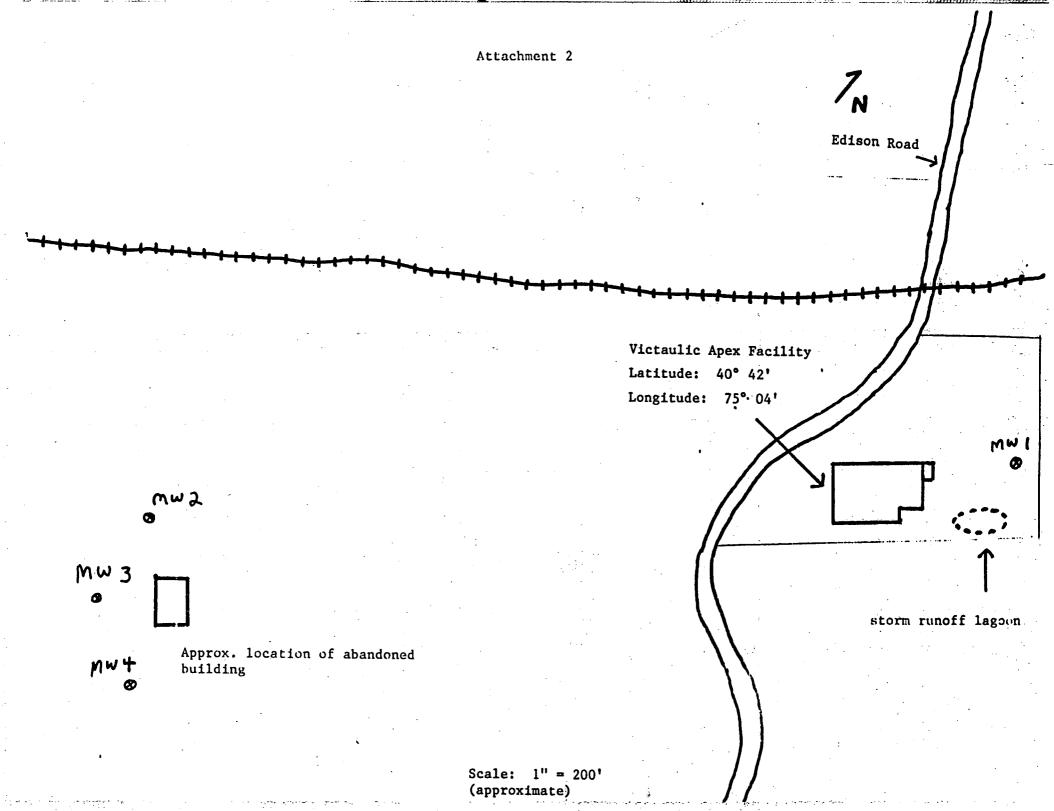
10. NOTICE IS HEREBY GIVEN OF THE FOLLOWING:

- a. Review by the Department of well locations and depths is limited solely to review for compliance with the law and Department rules:
- b. The Department does not review well locations or depths to ascertain the presence of, nor the potential for, damage to any pipeline, cable or other structures;
- c. The permittee (applicant) is solely responsible for safety and adequacy of the design and construction of well required to be constructed by the Department:
- harm or damage to person or property which results from the construction or maintenance of any well; this provision is not intended to relieve third parties of any liabilities or responsibilities which are legally theirs.

ADDITIONAL REQUIREMENTS (IF CHECKED):

□:.	Split Spoon Samples (In Overburden)	
	Rock Core Samples	
□3.	Dedicated Bailer (Sampler) In Well(s)	
⊠÷.	Borehole Coophysical Log(s) lithology description	•
	Other	•
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^{*} OTHER DRILLING METHODS, MATERIALS, DESIGNS AND CASING DIAMETERS MAY BE USED WITH PRIOR APPROVAL BY NJDEP.



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

MONITORING REPORT — TRANSMITTAL SHEET

	NJPDES NO.	REPORTING PERIOD	•
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PERMITTEE: Nam	victaulic Company of Ar	nerica	
Add	lress Box 31; 4901 Kesslervi	lle Road	
	Easton, PA 18042		
FACILITY: Nam	ne Apex Facility		· · · · · · · · · · · · · · · · · · ·
Add	ress Edison Road		
	New Village, NJ	(County) Warren	
Tele	phone (201) 859-0085		
FORMS ATTACHED	Indicate Quantity of Each)	OPERATING EXCEPTIONS	
SLUDGE REPORTS - SAN	IITARY		YES NO
T-VWX-007	T-VWX-009	DYE TESTING	
SLUDGE REPORTS - IND	USTRIAL	TEMPORARY BYPASSING	
T-VWX-010A	T-VWX-010B	DISINFECTION INTERRUPTION	
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WASTEWATER REPORTS		UNITS OUT OF OPERATION	
1 T-VWX-011	1 T-VWX-013A 2 T-VWX-013	OTHER	
GROUNDWATER REPOR		(Detail any "Yes" on reverse side in appropriate space.)	
NPDES DISCHARGE MON	* May & Nov	NOTE: The "Hours Attended at Plane" reverse of this sheet must also be co	
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LICENSED OPERATOR		PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIV	E
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m T-VWX-011

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

	F	ACILITY WASTEW	ATER REPORT		
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NOTE:

- 1. Flowrate is mandatory for all discharges.
- 2. pH and Effluent Temperature to be reported as required by permit for all discharges.
- 3. Thermal Parameters (Effluent Temperature, Thermal Loading, & Upstream Temp.) are mandatory for Thermal Discharges.

Form T-VWX-013 Rev. 3/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

NJPDES NO.	DISCHARGE ID.	REPORTING PERIOD MO. YR. MO. YR.	NJDEP USE	LABORATORY CERT. NO.
0 10 19 1 7 9 1	I 0 1 8 10	11 14 THRU 15 18	19 20	21 25

			PARAMETER DESCRIPTION		M	CO	UEN NC.	MS							NT C	R LI	TER			- 13 - 13				UEN GRAI					
П	26	27		28			RAGI		35	36	AV	ERA	GĒ	42	43	MA	XIA	MUN	49	50	A۱	/EA	AGE		5 57		IAXI	IMUN	M 63
	_	A	BOD _s	1	1	1		1	1	١	1	<u> </u>	1	1	ı	1	1 4	. 1	1.	i		1	1 .	. l	1	1 1	1	1	
	1	В	COD		1	ī		1			1	1 .	1	ī	1	1	1	. 1	1	- 1	1	1	1		Ţ		1	1	
	1	С	Total Dissolved Solids	1				1	Ī		1_	1 •		1				1	1.		ı	L	1.0				1		
	1	D	Total Suspended Solids	Ш	_1	1_				1	1_			1	ŀ	ı	L		1.			1	وا			L		بــــــــــــــــــــــــــــــــــــــ	
	1	Ε	Catestax Chloride		▓				\gg		L	1 •				1													
	1	F	Total Organic Carbon	L		1	1.	1	L		Ŀ				Li		ما		1	Ĺ	1		وا		Ŀ	Ш		بــــــــــــــــــــــــــــــــــــــ	•—
	1	G	Total Dissolved Carbon	لــا	_1	1		1	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	_1	1_	1 •					سل				: غال	1	1.		1	Ш			
	1	н	Total Nitrogen	$oxed{oxed}$		1.	•	Ĺ	Ĺ								با				ناـ		وا		\perp	لــا		ىل	
	1	ı	Ammonia Nitrogen	Ш	_1	L		1			L		1	1_	Ш		حــــــــــــــــــــــــــــــــــــــ	1	1	Ш	.1	1_	ولم		\perp	Ш		ىك	
١,	1	J	Nitrate Nitrogen	Ш	丄	1			Ŀ	1	_1_			1	\perp		با		1	Ш	1	1	1	4	↓_	L		ىــــــــــــــــــــــــــــــــــــــ	•
	1	κ	Total Phosphorus						L	Ш.		.	<u> </u>	1_		1	با	1	<u>. </u>	Ĺ		1_	1.	1	\perp	Ш		نــــــــــــــــــــــــــــــــــــــ	•——
11	1	-	Oil & Grease	Ш	丄	1.	•	1		1	_1_	•	_1_	1			فل	1	1	Ш		1	٠		$oldsymbol{\perp}$	Ш	1	<u>ا</u>	<u>-</u>
PERMIT	_	-	Petroleum Hydrocarbons	1	لك	1_	<u> </u>		Ц			1 •	_L	1_	1	1	بل		1	Ш	1	1	1.		ot	Ш		ب	
Y PE	·	-	Aromatic Hydrocarbons	ــــــــــــــــــــــــــــــــــــــ	\perp	1	L	_1_	L			•		1		Д.	L			Ш	_ـــــــــــــــــــــــــــــــــــــ	1	1	1	╀	Ш		نــــــــــــــــــــــــــــــــــــــ	
DBY	1		Chlorinated Hydrocarbons	1_1			•	1.	Ц	\perp	1			1			ب			1		1	1.		1	Ш		بــــــــــــــــــــــــــــــــــــــ	•
REGUIRED		+	Phenois (Total)	┦			•		Ц			•	_1_		ш		با				_		1.		1	Ш		ىــــــــــــــــــــــــــــــــــــــ	
au		-	Cyanide (Total)	\perp		1_	•	_1_	Ľ	\perp L	1	<u> </u>		1_			L		1	1	1	1	1.		╀	Ш		ــــ ــ	•—
RE	_	1	Aluminum	11		1	•		Ц			1.		1	1		با	1		Ц	1	1	1.	1	L	П		ىــــــــــــــــــــــــــــــــــــــ	سلم
AS	1	-	Arsenic	1		1	<u> </u>		ഥ	L	1_	l.				1	ب		1	1		1	با	1	ot	Ш		ىــــــــــــــــــــــــــــــــــــــ	•
	_	-	Cadmium	\perp	\perp		L •		Щ		1_	<u> </u>		1.				1		Ш	.1.	1	1.		Ļ	Ш		ىــــــــــــــــــــــــــــــــــــــ	
	1	\vdash	Chromium (Total)	┦	_1_		L•		Щ			<u>_</u>	丄	丄		1	با	i		1		1	1.	1	$oxed{\bot}$	Ш	_1_	ىــــــــــــــــــــــــــــــــــــــ	النا
	\vdash	1	Cobalt	┦┚		1.			Ļ	1	1	1.			1	1	L			Ц	Ĺ.	1	1.		_	Ш		بــــــــــــــــــــــــــــــــــــــ	سا
	1	1	Copper	1			•			_1_	1_	1.	Ŀ	1_				1		Ш		1	1.		Ļ	Ш		ىــــــــــــــــــــــــــــــــــــــ	-
	1	-	Lead	\coprod		1	L.		Ľ		1			1_	\perp		۰			Ш	<u></u>		1.	1	╁_	Ш	1	بــــ	Щ
	_	1	Mercury	\sqcup		1.	•		Ц		1.					1_	<u>_</u>			\sqcup		1_	وا		\perp	ب		4	•4
	-	-	Nickel	\sqcup		1	•		Ц		1			Щ.		_1_	1.	1		Ш			1.		_	ப்		ىــــــــــــــــــــــــــــــــــــــ	
	_	-	Silver	\sqcup			•				1_	1 •		1_		\perp	L			ш		1	1.	<u>. </u>	1	Ц		1_	
	2	В	Zinc	Ш			<u> </u>		Ц			<u> </u>		1_	1		L		1_	Ш		L	1.		\perp	Ш	1	1	
	_	Ш	Fluoride	1		1	•		Ц		1_	<u> </u>	1		Ш	_	L	1	1	Ц	1	1_	I.e	4	↓_	LI		4	
		Ш	Phosphate	\sqcup		لــــــــــــــــــــــــــــــــــــــ	<u> </u>		Ц			•			Ш		L		1.	Ш		1	1.	ــــــــــــــــــــــــــــــــــــــ	\perp	Ш		ىل	•
		Ш	Sulfate	L		<u>L</u> .	<u> </u>		Щ		1_	1.		1	$oldsymbol{ol}}}}}}}}}}}}}}}}}$	1	ما		1	Ц		_L_	1:0			Ш		1	

DISCHARGER NAME	LAB NAME

Form T-VWX-013 Rev. 3/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

NJPDES NO.	DISCHARGE ID,	REPORTING PERIOD	NJDEP USE	LABORATORY CERT. NO.
0 0 19 19 17 1 9 1	1 10 12 - 8 10	THRU 15 18	[3] [] 19 20	21 25

						· · · · · · · · · · · · · · · · · · ·										
	•		PARAMETER DESCRIPTION	INFLUENT CONC. MILLIGRAMS PER LITER	er •	EFFLUEI MILLIGRAM		R LITER	EFFLUENT LOADING KILOGRAMS PER DAY							
П	~	27		AVERAGE 28 35	26	AVERAGE	43	MAXIMUM	AVERAGE MAXIMUM 50 63							
	<u>26</u> 1	A	BOD _s	1 1 1 1 1 1	<u>30</u>	1 1 1 1	43	49	50 56 57 63							
	_	+-	COD													
	1	c	Tota! Dissolved Solids		 			11011								
	_	+-	Total Suspended Solids					1 1 2 1 1								
	1	E	Chlorine		<u></u>	1 1 0 1 1	\vdash									
		F	Total Organic Carbon		<u> </u>											
		G	Total Dissolved Carbon					, 								
		1	Total Nitrogen					 								
1	1	1	Ammonia Nitrogen		1	1 4 1		▼								
1 1	1	1	Nitrate Nitrogen	111.	—— 	•										
	1	1	Total Phosphorus	111011	1	•										
1	1	+	Oil & Grease	•	ī	1 1 • 1 1	1	1 •								
PERMI	1	М	Petroleum Hydrocarbons	111011	ı	•										
PE	1	N	Aromatic Hydrocarbons		- 1			11.1								
BY	1	0	Chlorinated Hydrocarbons	1:11•11	ī	•		11.1								
REQUIRED	1	Р	Phenois (Total)	1 1 1 • 1 1	1											
	1	a	Cyanide (Total)	1111011	1		1									
REC	1	R	Aluminum	1 1 1 • 1 1	<u> </u>	11.1		1 •								
AS	1	s	Arsenic	111011	1	1 •	1									
	1	Т	Cadmium	•	1	•	1									
	1	U	Chromium (Total)		1		1	• .								
	1	v	Cobalt	•	1	•	i	1 •								
	1	w	Copper		1	1 •	1	1 •								
	1	X	Lead	111011		1 • 1 1	1	11•11								
	1	Y	Mercury		1	1	1	•								
	1	z	Nickel	111011	. 1	•	ı	•								
	2	Α	Silver	1 1 1 • 1 1	1	•	1	1 •								
	2	В	Zinc	1.11.		1 • 1 1	ı	1 •								
						1 •	ı	1 • 1								
				•	1	1 • 1	l									
Ц						1 • 1 1										

DISCHARGER NAME	 LAB NAME
4.4	

Form T-VWX-013 5/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

	· ·			·	NEW JERSEY
NJPDES NO.	DISCHARGE ID.	REPORTING PERIOD		NJDEP	LABORATORY CERT. NO.
010131313131	I1012	THRU 18	[3] 19		21 25

		PARAMETER	INFLUENT CONC. MILLIGRAMS		NT CONC. IS PER LITER	EFFLUENT LOADING KILOGRAMS PER DAY						
П	26	DESCRIPTION 27	PER LITER AVERAGE	AVERAGE	MAXIMUM 43 49	AVERAGE 50 56	MAXIMUM 57 63					
		Barium			111011	1111	للمللك					
	٦	Chloride			111011	1111-						
H	T	Manganese	111111	111011		111.						
		Phosphate		111011		1111						
11		Selenium				11111	<u> </u>					
I [floor	Sulfate	111011		111011	11101						
	brack	Total Xylene	111111	111011	11011	111101						
				111011	111011							
l				111011		1111						
	I		111011	111011								
			111011	111011	111011		111101					
 - [11011		111111						
BY PERMIT	\Box			111011	111011	11101						
PE				111011	111011	11101	111101					
		·		111011	111011		111.					
	T		111111		111011	11101	11111					
				111.1	111011	111101	111101					
AS REGUIRED	brack		111011		11011	111101	111111					
श्र	T		111011	111.1	111011	11101	111101					
	T		111011		111011	11101						
11			111011		111011	111101						
1 [T		111011		111011	11101						
lſ	T		1111011				111101					
1 [111.1		111011	11101	111101					
lt	T		111011	111011		11111						
					11.		111.					
1	1		! • !		111011	1; ! • !						
11	T				1		العللنا					
	T			11.		11101	111.					
11	T		111011	111011	111011	111.1	1110					
	T		1111011	111.011		11101	111101					

DISCHARGER NAME	LAB NAME	

Form T-VWX-013 A 5/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

NJPDES NO.	DISCHARGE ID.	REPORTING PERIOD		NJDEP"	NEW JERSEY LABORATORY CERT. NO.
0 0 9 9 7 9 1 -	I ₁ 0 ₁ 2	11 14 THRU []]	19	Ļ	21 25

							, 	
			PARAMETER DESCRIPTION	ONFLUENT CONC. OHLLIGRAMS	MILLIGRAN	NT CONC. IS PER LITER	1	LOADING SPERDAY
Г	26	27		PER LITER AVERAGE	AVERAGE	BAXMUM 43 48	AVERAGE	MAXIMUM 57
1			Acrylonitrile	1111011		-11111	11111	1111.1
l			Benzene	1111411	111411		111111	1111.1
1	Г		Bromoform	111011	111011			111101
			Carbon Tetrachloride	111011	11.11	111.11	11111	
			Chlorobenzene	111111	411.11	111011		111101
ł	L		Chlorodibromomethane	111011	111011			11111
ł	L		Chloroform	111.11	1101	111.11		1111
ı		Ш	1, 1 - Dichloroethane	1111011	11111			111101
I			1, 2 · Dichloroethane	1111011	11011	111.11		
l	L	Ц	1, 1 - Dichloroethylene		العالا			111147
ı			1,2 - Dichloropropane		111011	1101	11101	
E	L		Ethylbenzene	111011	11.11		-	
3			Methylene Chloride		11.11	111011	11101	111101
10	L	Ц	1, 1, 2, 2 - Tetrachloroethane		111.11	110	11101	111111
16		Ц	Tetrachloroethylene		111.11		11101	11101
REC			Toluene	111011	111.11	111011	111111	111101
AS REQUIRED BY PERMI			1, 1, 1 - Trichloroethane		111011	111.11	11111	111101
AF			1, 1, 2 - Trichloroethane		111011	111.11	111161	111111
SK			Trichloroethylene		111011	111.11	1111.1	11111
ı			Vinyl Chloride	111111	111011	111011	111101	
ļ			Acrolein	111111	111011	111:011	111111	
			Chloroetnane	1111011	111011	111011	111101	11111
1			2 - Chloroethylvinyl Ether	1:11.1	111011	111.11	111101	11111
			Dichlorobromomethane	111611	111.11	111011	111111	
			1, 3 - Dichloropropylene	1111011	111.11	111.11	111111	
ı			Methyl Bromide	111011	111.11	111.11		
			Methyl Chloride		11111	11011		: 1 1 1 - 1
1			1, 2 - trans - Dichloroethylene	111.10.11	111011	111011		
1			1, 2 Dichlorobenzene	1111011	111011	111.11		1 1 1 1 1
			1, 3 Dichlorobenzene	111.11	111011	111.11	1111	1 1 1 1 2 1
			1, 4 Dichlorobenzene	1111011	111011	111.11	11111	
_								

DISCHARGER NAME		LAB NAME	
			

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN SW ID NO. FACILITY NAME Apex Facility LAB NAME SAMPLE DATE NJPDES NO. WELL PERMIT NO. YR. | MO. | DAY NJ LAB CERT. NO. WOM USE 9 7 9 1 то THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM SUBMIT WITH SIGNED T-VWX-014 SAMPLING MONTHS Apr.
May
June
June
July
Aug.
Sept.
Oct.
Doc. ANALYSIS UNITS **PARAMETER** VALUE Elevation of top of well casing with cap off feet MSL: (as specified in well completion report) to nearest .01 Elevation of original ground level feet MSL: (as specified in well-completion report) to nearest .01 Depth to water table from top of casing prior to feet: to 8 2 5 4 6 nearest .01 sampling with cap off Depth to water table from original ground level feet: to 2 0 1 9 nearest .01 prior to sampling Arsenic, Dissolved UG/L as As 0 1 lolo UG/L as Ba 0 1 10 0 5 Barium, Dissolved MG/L 0 0 3 1 Biochemical Oxygen Demand - 5 Day UG/L as Cd 0 1 10 2 5 Cadmium, Dissolved UG/L as CI 8 2 2 9 Chloride, Dissolved 5 UG/L as Cr 0 1 0 3 0 Chromium, Dissolved 220 Chromium, Dissolved, Hexavalent UG/L as Cr 0 l 1 MG/L 0 0 3 4 1 Chemical Oxygen Demand (COD), Dissolved 0 5 6 4 Coliform Group N/100 ML Color Pt - Co 0 0 0 0 18 0 Copper, Dissolved UG/L as Cu 0 1 0 4 0 MG/L as CN 0 0 7 2 0 Cyanide, Total Endrin, Total UG/L 3 9 3 9 0 Fluoride, Dissolved MG/L as F 0 0 9 5 0 1 5 0 3 Gross Alpha, Dissolved Pc/L 5 0 3 Gross Beta, Dissolved 0 3 Pc/L Hardness, Total as CaCO₃ MG/L 0 0 19 0 10 Iron, Dissolved UG/L as Fe 0 1 0 4 6 Lead, Dissolved UG/L as Pb 0 1 0 4 UG/L Lindane, Total 3 9 7 8 2 UG/L 0 0 5 Manganese, Dissolved 1 6 1 8

UG/L

7

29

42 55 68

9 0 33 34 46 47

VALUE CODING RULES AND REMARK CODES ON REVERSE

Mercury, Dissolved

VALUE CODING RULES

- NUMBERS SHALL BE CODED IN CONTIGUOUS BLOCKS (NO EMBEDDED BLANKS)
 WITH ONE DIGIT PER BLOCK.
- THE DECIMAL POINT MUST BE CODED AS PART OF <u>EACH</u> VALUE. THE DECIMAL POINT SHALL OCCUPY ONE BLOCK BY ITSELF.
- THE UNITS DETAILED FOR EACH PARAMETER NUMBER MUST BE UTILIZED. SUBSTITUTION OF UNITS IS NOT ALLOWED. THE PERSON(S) PREPARING THE REPORT ARE RESPONSIBLE FOR ALL UNIT CONVERSIONS WHERE REQUIRED (E.G. A LABORATORY HAS REPORTED IN MICROGRAMS PER LITER BUT THE PARAMETER ON THE FORM REQUIRES PARTS PER MILLION).
- FOR EXTRAORDINARY CIRCUMSTANCES WHERE COMPLIANCE WITH THE ABOVE IS IMPOSSIBLE, BRIEFLY DETAIL THE PARTICULARS IN WRITING. INCLUDE A CONTACT PERSON'S NAME AND TELEPHONE NUMBER. A DIVISION REPRESENTATIVE WILL TELEPHONE TO DISCUSS THE PROBLEM AND EFFECT A SOLUTION.

REMARK CODES

- B RESULTS ARE BASED UPON COLONY COUNTS OUTSIDE THE ACCEPTABLE RANGE.
- C CALCULATED
- J ESTIMATED VALUE, VALUE IS NOT ACCURATE. USE IF SAMPLE EXCEEDED HOLDING TIME.
- K ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN. USE IF ANALYSIS IS NEGATIVE, BUT WITH THE LIMIT OF DETECTABILITY AS THE VALUE.
- L ACTUAL VALUE IS KNOWN TO BE GREATER THAN THE VALUE GIVEN.
- O SAMPLED BUT ANALYSIS LOST.
- U MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. CODE "K" WHERE LIMIT OF DETECTABILITY EXISTS. CODE "U" WHERE NO LIMIT OF DETECTABILITY EXISTS.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT PLEASE TYPE OR PRINT WITH BALLPOINT PEN FACILITY NAME SW ID NO. Apex Facility LAB NAME SAMPLE DATE NJPDES NO. **WELL PERMIT NO.** NJ LAB CERT, NO. WQM USE YR. | MO. | DAY NJ 0 0 9 9 7 9 1 THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM HOLYR SUBMIT WITH SIGNED T-VWX-014 SAMPLING MONTHS Jan. Heb. Mar. Mar. May. May. May. May. July Aug. Sept. Oct. Nov. UNITS **ANALYSIS PARAMETER VALUE** Methoxychlor, Total UG/L 3 9 4 8 0 3 8 2 6 0 Methylene Blue Active Substances MG/L Nitrogen, Ammonia, Dissolved NH₃ + NH₄ as N MG/L as N 0 0 6 0 8 Nitrogen, Nitrate Dissolved MG/L as N 0 0 6 1 8 Odor T.O.N. 0 0 0 8 5 0 0 4 0 0 рН Standard Units Phenols, Total Recoverable UG/L 3 2 3 0 Radium 226, Dissolved Pc/L 0 9 5 0 3 8 Radium 228, Dissolved Pc/L 1 3 6 6 0 Selenium, Dissolved UG/L 1 5 1 4 7 Silver, Dissolved UG/L 0 0 Sodium, Dissolved MG/L 0 0 9 3 0 0 0 9 4 Sulfate, Dissolved (as SO₄) MG/L 6 0 3 0 **Total Dissolved Solids (TDS)** PPM Ю 0 0 6 8 0 Total Organic Carbon (TOC) **PPM** 0 3 5 3 Total Organic Halogen (TOX) UG/L Toxaphene 3 9 4 UG/L 0 0 **Turbidity** NTU 0 0 0 7 Zinc, Dissolved UG/L 1 0 9 0 7 2, 4-D, Total UG/L 9 3 0 UG/L 3 9 0 4 2, 4, 5-TP, Total Phosphate MG/L Total Xylene UG/L

VALUE CODING RULES AND **REMARK CODES ON REVERSE** 42

VALUE CODING RULES

- NUMBERS SHALL BE CODED IN CONTIGUOUS BLOCKS (NO EMBEDDED BLANKS)
 WITH ONE DIGIT PER BLOCK.
- THE DECIMAL POINT MUST BE CODED AS PART OF EACH VALUE. THE DECIMAL POINT SHALL OCCUPY ONE BLOCK BY ITSELF.
- THE UNITS DETAILED FOR EACH PARAMETER NUMBER MUST BE UTILIZED. SUBSTITUTION OF UNITS IS NOT ALLOWED. THE PERSON(S) PREPARING THE REPORT ARE RESPONSIBLE FOR ALL UNIT CONVERSIONS WHERE REQUIRED (E.G. A LABORATORY HAS REPORTED IN MICROGRAMS PER LITER BUT THE PARAMETER ON THE FORM REQUIRES PARTS PER MILLION).
- FOR EXTRAORDINARY CIRCUMSTANCES WHERE COMPLIANCE WITH THE ABOVE IS IMPOSSIBLE, BRIEFLY DETAIL THE PARTICULARS IN WRITING. INCLUDE A CONTACT PERSON'S NAME AND TELEPHONE NUMBER. A DIVISION REPRESENTATIVE WILL TELEPHONE TO DISCUSS THE PROBLEM AND EFFECT A SOLUTION.

REMARK CODES

- B RESULTS ARE BASED UPON COLONY COUNTS OUTSIDE THE ACCEPTABLE RANGE.
- C CALCULATED
- J ESTIMATED VALUE, VALUE IS NOT ACCURATE. USE IF SAMPLE EXCEEDED HOLDING TIME.
- K ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN. USE IF ANALYSIS IS NEGATIVE, BUT WITH THE LIMIT OF DETECTABILITY AS THE VALUE.
- L ACTUAL VALUE IS KNOWN TO BE GREATER THAN THE VALUE GIVEN.
- O SAMPLED BUT ANALYSIS LOST.
- MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. CODE "K" WHERE LIMIT OF DETECTABILITY EXISTS. CODE "U" WHERE NO LIMIT OF DETECTABILITY EXISTS.

Form VWX-016 4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

FACILITY	NAME Apex Facility		•	SW ID NO.	
LAB NAME					
Ţ	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
THE SCHE	EDULE INDICATED BELOW IS TO	BE OBSERVED FROM MO.	TO MG. YR.		

SUBMIT WITH SIGNED T-VWX-014

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VALUE CODING RULES AND REMARK CODES ON REVERSE

GROUND WATER MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION (One form must be completed for each well)

		•		
Name of Permittee: Name of Facility: Location:				
NJPDES Permit No:	NJ			
ENGINEER'S CERTIFIC	ATION			
Well Permit Number	(As assigned by 1 (609-984-6831):	•		
This number must be well casing.	permanently aff	ixed to the		
Owner's Well Number or plans):	ş. 44**	e application -	· · · · · · · · · · · · · · · · · · ·	
Well Completion Dat Distance from Top o surface (one-hundr	f Casing (cap of: edth of a foot);	•		
Total Depth of Well Depth to Top of Scr (one-tenth of a fo	een From Top of (foot): Casing		
Screen Length (feet Screen or Slot Size	.):	-		
Screen Material: Casing Material: (P		er-Specify):		
Cacing Diameter (Inc	:hes):	· _		
Static Water Level Time of Certificat	From Top of Casi	ng at The h of a foot): .		
Vield (Gallons per	Minute):	•	Hours	Minutes
Length of time Well Lithologic Log:	Pumped or Balle	a:	ATTACH ON	
Lithologic boy.		•		
AUTHENTICATION: I certify under perfamiliar with the iments and that, bas responsible for obtinformation is true significant penaltipossibility of fine	information submited on my inquiry taining the information accurate and cles for submitted	of those indimation, I beliomplete. I am false informa	viduals immediateve the submitted aware that their	ely ed ce are
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Professional Engine	eer's License #	•	. •	

ALL EXISTING AND PROPOSED GROUND WATER MONITORING WELLS SHALL MEET THE FOLLOWING REQUIREMENTS:

A Ground Water Monitoring Well Certification Form (A and B) must be completed for each existing and proposed ground water monitoring well. Information for each well must be shown on a separate well completion form. The form entitled "Ground Water Monitoring Well Certification, Form A-As Built Construction Certification", must be signed by one of the following: a New Jersey licensed Professional Engineer; a licensed New Jersey Well Driller; a geologist certified by any State; a geologist certified by the American Institute of Professional Geologists; an individual certified by the American Institute of Hydrology; any other person approved by the Department. Form B, "Location Certification", must be signed and sealed by a Licensed New Jersey Land Surveyor. For an existing well, if information required on the well completion form cannot be determined or if the well is not adequately constructed to meet the requirements of the NJPDES Permit, the Department reserves the right to require additional replacement well(s) to be drilled. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample at any time of the year as specified within the NJPDES Permit. Any replacement well must be installed within a ten (10) foot radius of the specified sampling location. Inadequate or damaged wells must be properly sealed as per N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office at (609) 984-6831.

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITO	RING WELL CERTIFI	CATION - FORM B	- LOCATION CERTIFICATION
Name of Permittee: Name of Facility: Location:			
NJPDES Number:	NJ		
LAND SURVEYOR'S CER	RTIFICATION	•	
Well Permit Number Allocation Section, This number must be well casing.	. 609-984-6831):	•	
Longitude (one-tenth Latitude (one-tenth e Elevation of Top of (one-hundredth of Owners Well Number or plans):	Casing (cap off) a foot):		rth
AUTHENTICATION I certify under per	alty of law that	I have personal	ly examined and am
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PROFESSIONAL LAND S	SURVEYOR'S SIGNATU	RE	
PROFESSIONAL LAND & (Please print	SURVEYOR'S NAME or type)		SEAL
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The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall not be considered to require a major modification of the NJPDES permit.

<u>Special Conditions for Victaulic Company of America</u> <u>and Franklin Industrial Park</u>

- 1. If, sixty days from the Effective Date of this permit, Victaulic Company of America ("Victaulic") continues to discharge waste water onto property owned by Franklin Industrial Park, then Victaulic shall obtain from Franklin Industrial Park an easement to continue the discharge. an easement must be obtained within 90 days of the Effective Date of Permit. If the discharge of waste water is diverted, then the permittees shall submit a plan to the Bureau of Ground Water Quality Management for review and Said plan shall include the new disposal site, the path by the waste water will travel to the new site, and plans for closure of the former discharge site. If the plan involves the installation of a water treatment system, then the permittees shall apply to the Bureau of Industrial Waste Management [(609) 292-0407] for a Treatment Works The Department may then modify this permit to Approval. accommodate closure of the former discharge site and/or the addition of a new regulated unit.
- 2. Within sixty (60) days of the effective date of this permit, Victaulic Company of America shall submit a list of all the parameters for which they have analyzed the waste water in the past and a copy of the most recent of those analyses.
- 3. If the discharge monitoring limits cited in Part III of this permit are exceeded, the Department may, at its discretion, modify this permit to include the installation of water pretreatment facilities, additional ground water monitoring wells, and/or a corrective action program.
- 4. If the results of the discharge and ground water monitoring are below the cited limits for one year, the Department will consider a petition from the permittees to relax the monitoring requirements.

APPENDIX III

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF HAZARDOUS WASTE GENERATOR'S ANNUAL REPORT FOR YEAR OF 1981

1.GE	ENERATOR'S NAME_	FRICAL DOAD NEW VILLAGE		2.EPA ID N	O. WJD	000499293	
3.AI	DDRESS	BOX 107 STEWARTSVILLE, NJ					
4.TF	RANSPORTER'S NAM	ME MODER NO. TRANS PORTATIO.	2 <u>Co</u>	5.EPA ID N	0. <u>NJI</u>	0 000009050	
6.AI	DDRESS	75 Jeobus auc 5	South Harry	10. J. 07	032	(201-584-0	2277)
7.F	ACILITY'S NAME_	MODERN TRANSPORTATION	<u>C</u> e,	8.EPA ID N	0. <u>NJT</u>	000009050	
9.AI	DDRESS	75 acolues and Sin	th Kearny	10. J. 07	032		类
10. <u>M</u>	ANIFEST NO.	DESCRIPTION OF WASTE	DOT HAZ.CLASS	QUANTITY	UNITS	EPA WASTE TYPE	REJECT
<u> </u>	008530 2/3/61	Sulyhurin pichle acid	Corrorive	3/00	G	KC62	N ['] U
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<u> </u>	034 943 4/16/81	Sulphurie seidle accid	Chrisani	4/00	G	K062	ינים
00	534954 5/18/81	Sulphurie rolle accel	Corrowie	3950	6.	Kobz	₩ (
00	284955 1/0/x1	Suplance & Indoffere piolif Co	ud Cerrosist	4100	6	K.0621	νı
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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF HAZARDOUS WASTE GENERATOR'S ANNUAL REPORT FOR YEAR OF 1981

	•		•		•	
1.GENERATOR'S NAME	VICTAULIC COMPANY OF AM	ERICA	2.EPA ID N	O. WJD	000499293	
3.ADDRESS	EDISON ROAD, NEW VILLAGE BOX 107 STEWARTSVILLE, NJ	08886				· · · · ·
4.TRANSPORTER'S NAME_(WASTE CONVERSION	J			085690592	
6.Address <u>2869</u>	SANDSTANE DRIVE W	LATTELD PA.	19440	C.215.	-822-8996)	<u> </u>
7. FACILITY'S NAME : W	ASTE CONVERSION	INC	8.EPA ID N	0. <u>PHI</u>	0085690547	
9. ADDRESS 2864	SANDSTONE DRIVE	\$VATFIELD	P19 19440	ė		
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for sheet for instructions. TYPE all information.

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

HAZARDOUS WASTE MANIFEST

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See edger sheet for instructions PRINT clearly using

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES

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`.	TREATMENT, STORAGE OR		2.6									4		1_	Ц
	DISPOSAL (TSD) FACILITY Waste Conversion	2869 Sandstone Hatfield, PA	Dr1ve L9440		215	022 000	•	١ ـ .	4 . D .	^ .	0. E.		A . F	٠	
-	IF MORE THAN TWO TRANSPORTERS	ARE TO BE UTILIZED, FILL	OUT THE FOLLOWI	NG AS A	PPROPE	822-8990 NATE			تمته	יוע	81516	K	פוט	П.	4
	THIS FORM IS	NOOUT OF A TOTAL	OFTHE FIR	ST MAN	IFEST D	OCUMENT NO) IS	PA	Į			لـلـ		1_]
				F	ORM		_	UNITS	\Box			EPA			\neg
;	PROPER US DOT SHIPPING NAME	US DOT HAZARD CL		R O	LIQUID	QUANTITY	GAILONS	CU YDS.	TONS	CONT	AINERS	HĄZ	E WAS	PA	,DE
۳,			No made	8	٥ ٢		ĕ B	<u> </u>	١٢,	NO	TYPE	CODE	****	112 11	:
ATO.	1RQ Sulfuric Acid, Sp		;			5000	1		1			ا ہے۔			
GENER	Haste Pickle Liquor	Material	1832		KX	,	┸┼		╁╌╂╴	1 1	ank 🖁	·/ ·	+		4
9 0	2 (1	'	1			
-	3				П				П					1	
				-	 -	 	H		╂╼╂╴	+			+	-	Н
	4												止		
	SPECIAL HANDLING INSTRUCT HAZARDOUS NATURE INCLUD	TIONS INCLUDING CON SED IN SHIPMENT WHI	ITAINER EXEMP	TION (i.e. IDE BE MA	NTIFICATI NIFESTED)	ON	OF A	DOITIO	ÒNAL	WAST	ES O	FAN	NON-	
		કર્મના એ ક્		'		•									
		•													
,	•	•	:	· .											ł
	GENERATOR'S CERTIFICATION	ON. This is to certify tha	t the above named	materi	als are	properly clas	sified	, desc	ribed,	packa	ged, ma	arked	and la	belle	d
	end are in proper condition for t wastes described above were con-	signed to the transporter	named. The TSD	Facility	can and	d will accept	the	rans _i shipm	ent of	hazar	dous w	, and aste, a	ne St	ate. s a va	alid
	permit to do so. I certify that the	ne foregoing is true and co	· · · · · · · · · · · · · · · · · · ·		nowied		1005			l c	VOCCTE	ABBI	741 6	ATE	_
	Romald D. Erok	. .	PLANT		4R.	DATE SH	23	رعو الم	/	١	XPECTE!	ر جي ا		YE	AR
	I DATE RECEIVED	NSPORTER NO 1 SIGNATU				TRANSPORTI		· · ·	PA		KF	7	21-	212	
ا	MONTH DAY YEAR	Verna &	Jarne	<u>ن</u>		ID (License		•		4		UMBER	212	-1/	
		СОРУ	3 Generator		•	enerator.			<u> </u>						
RTE				em em	,,,,,,,			<u></u> -			=			==	
	PART B: TRANSPORTER NO 1 SIGNATURE AN	ND CERTIFICATION OF DELI	O A VERY AND NON-TA	MPERIN	G WITH	SHIPMENT				D	ATE DE	IVERE	0	7	
BE FILLED TRANSPO	1/1000	100 d	Mann	01		٠,					MONTH	-2	Ž. 6	المسرار	AR
TR/		ANSPORTER NO 2 SIGNATU	IRE AND CERTIFICA	TION		TRANSPORT			P-/	 }		T	$\overline{\Box}$	T	7
2	MONTH DAY YEAR	RECEIPT OF SHIPMENT				NO. 2 H.W.T ID (License			~~	- 1		UMBEF			
	TRANSPORTER NO. 2 SIGNATURE AN	ND CERTIFICATION OF DELI	VERY AND NON-TA	MPERIN	3 WITH	SHIPMENT				C	DATE DE	LIVERE	D		
											MONTH		AY	YE	AR
	TREATMENT STORAGE OR DISPOSA OF REASONS FOR AND DISPOSITION	AL FACILITY INDICATION OF N OF REJECTED MATERIALS	ANY DIFFERENCES	BETWE	N MAN	IFEST AND SI	ніРМ	ENT OF	R LISTII	NG				DLIN	
						- 1							1 6	- T.	
>	1) a dahlaren	nes, co	report	Lon	0						•		-	2 C	44
- 5 <u>≿</u>	1 10 0 mg/pow.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4		,								2	다	Ш
FILLED OUT D FACILITY										•			3 7	- 2	.[3]
<u> </u>	1	UTDDDD	विवि शिव	3	EVDE	CTED DISP	OSAI	באם .	<u>.</u> 9	23	3/81		4 7	HY	0
as Ts	TSD FACILITY SIGNATURE AN	ND CERTIFICATION OF	RECEIPT OF	TITLE	• 6	OTEU DISP	JJA	- 201		T	DATE P	ECEIV	ED/RE	NECT	ED
5	SHIPMENT	MX KC	حفريد	LA	13	TEC	řΪ				MONTH	/ (AY.	YE	AR
	In case of an emergency or spill in	nmediately call the Nation	al 7			DOC		AT A	io P	Δ		325	. 7	72	6
	Response Center (800) 424-8802	and the PA DER (717) 78	37-4343			DUC	J 141 C	.141 1	۱.ب.	• •	(J _ \	<i>)</i> !		٠,

4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

10/19/90 MW-1

GROUND WATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

REMARK CODES ON REVERSE

FACILITY N	AME Apex Facility			SWID NO.	
LAB NAME	COOPERATIVE VEN	NTURES , INC.		— — ————	
R	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY 0 0 9 17 22	NI LAB CERT. NO.	WOM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 014 818 TO 013 913 MO. YR.

SUBMIT WITH SIGNED T-VWX-014

ë.	Feb.		APL:						lov.	00.	ANALYSIS	UNITS		PAF	RAJ	MET	TF F	t		v	ALI				REMARKS
N	T	X			X		1	X	2		Elevation of top of well casing with cap off	feet MSL:	T	<u> </u>				Т	<u> </u>	Ī	T	Γ	اسرا		RE
×		X			X	1	寸	X			(as specified in well completion report) Elevation of original ground level (as specified in well completion report)	to nearest .01	\dagger					\dagger	T	5	1 1		5	\dashv	_
X		X			X			x			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	1	3 2	1	5 4	E	+	13	T	5		0	0	_
X		X			X		4	٨			Depth to water table from original ground level prior to sampling	feet: to	1	1 2	o	1	9	+	T	1	3		4	┪	
7	\bot	X		 -	X.	1		<u> </u>			Arsenic, Dissolved	UG/L as As	1	1	10	0	0	1	T		1			7	_ L
시		X			X.	1		<u> </u>			Barium, Dissolved	UG/L as Ba	+	1	+-	0		+-	a	_	<u></u>			\dashv	k
4				1	\perp	\perp		.			Biochemical Oxygen Demand - 5 Day	MG/L	┿	0	- i-	- -	÷				Ŭ	-	<u>+</u>	+	<u> </u>
X	\perp	X	\perp		XL	\perp		X			Cadmium, Dissolved	UG/L as Cd	10	_	+-	┿	+-			£,	ن		\dashv	\dashv	-
杠	1	X	\perp			\perp	<u> </u> x	<u>(</u>	\perp		Chloride, Dissolved	UG/L as CI	8	2		- 1		a			_	ان	\dashv	\dashv	-
<u> </u>		K			<u>(</u>		12	4			Chromium, Dissolved	UG/L as Cr		1					U	`-	7		•	+	
\perp	\perp		\bot	\perp		1					Chromium, Dissolved, Hexavalent	UG/L as Cr	+-	1	┿-	2	ب	+-	H	-	+	러	+	+	-
\perp	\perp	Ш	\perp						T	-	Chemical Oxygen Demand (COD), Dissolved	MG/L	+-	0	-		+	+		\dashv		\dashv	\dashv	+	-
	\perp		\perp	\perp						\Box	Coliform Group	N/100 ML	4	4	! -		<u>. </u>		\dashv	+	+	╣	+	+	_
\perp	\perp			1		L					Color	Pt - Co	+-	0	+-		!			\dashv	+	+	+	+	_
业		X		X			ΙX				Copper, Dissolved	UG/L as Cu	+-	+	-	4	!		\dashv	اړ	-	\dashv	+	+	_
L		X	1	7			X				Cyanide, Total	MG/L as CN	╌	0	-	÷	<u>. </u>	H	+	-+	0	-	0 1	+	<u> </u>
			<u> </u>	\perp						T	Endrin, Total	UG/L	-	+		9	-	Н	\dashv	\dashv	쒸	+		+'	_
		X)			X				Fluoride, Dissolved	MG/L as F	! —	-		5		H	\dashv	+	0	+	al	+.	_
											Gross Alpha, Dissolved	Pc/L	0	-	_	0	-	H	\dashv	+	9	+	4	+	<u>`</u>
L									T		Gross Beta, Dissolved	Pc/L	0	-	_	-	3	H	\dagger	+	╁	+	+	+	_
									Τ		Hardness, Total as CaCO ₃	MG/L	-		_	-	0	\vdash	+	+	+	╁	╬	+	-
		X		X			X				Iron, Dissolved		0	1			6	+	+	5	+	+	+	+.	4
		X		X		-	X		T	T	Lead, Dissolved		0			-	9	+	+	 -	c .	+	+	K	7
L									T	1	Lindane, Total		3	-	_	└	2	+	+	+	<u> </u>	+	+	1	┧
		X		X			X		T	Ī	Manganese, Dissolved			1				1	1.	+	+	\perp	+	╀	$\frac{1}{2}$
		ΧĪ	\prod	X			Х	Γ		1	Mercury, Discolled	UG/L	7	-+	8		0	-	+	2 0		1-	+	K	1
V۸	LU	FC	יחכ	NO	ים		- /	^ •		ـــــــــــــــــــــــــــــــــــ			29		0		33	34			<u>ا.</u>	5		K	١

DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND W. . ER ANALYSIS - MONITORING WELL REPORT

LEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAM	Apex Facility			SW ID NO.	
LAB NAME	LOCPERATIVE	VENTURES, INC.			
S	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY 9 0 1 0 1 9	NJ LAB CERT. NO.	WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR.

SUBMIT WITH SIGNED T-VWX-014

		SAN									•													3
Jan.		Apr.	₹	Jung	July	Aug.	Sapt	0 ct.	S S	Dac	ANALYSIS	UNITS	P	'AR	AM	ET	ER			V	ALI	UE		
\perp		_									Methoxychlor, Total	UG/L	3	9	4	8	О	i					П	_
\perp	\perp	1								L	Methylene Blue Active Substances	MG/L		1	2	+	+-	+-	\Box	Н				十
4		X			X			X	L		Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N	MG/L as N	_	_	6		-	-		\Box	0		7	٦,
1	\perp	X			X			X	L	L	Nitrogen, Nitrate, Dissolved	MG/L as N	0	0	6	1	8	T	П	3	Ť	-	c	ज्ञी
L	1	\perp		_							Odor	T.O.N.	0	0	0	8	5	T	П		一		7	+
L	\perp	X			X	\Box		X	L		На	Standard Units	0	0	4	0	0	T	П	П	7		0	7
	\perp			_	_				L		Phenois, Total Recoverable	UG/L	3	2	7	3	0	\Box			-	Ť	7	\top
	_		_								Radium 226, Dissolved	Pc/L	-	_	5	+	+	\Box			-	\dashv	+	1
_	\perp		\bot			\perp					Radium 228, Dissolved	Pc/L	8	1	3	6	6				7	\dashv	\top	十
		X		1	X	\perp		X			Selenium, Dissolved	UG/L	0	1	1	4	5	П	П	\dashv	5	\top	7	K
	L	X			K			X			Silver, Dissolved	UG/L	0	1	0	7	5	H		اد	0	Ť	\top	1
	_					\perp	╛				Sodium, Dissolved	MG/L	0	0	9	3	0				1	1	\dagger	十
	L	X		;	X			X			Sulfate, Dissolved (as SO ₄)	MG/L	1	0	+	4	-	H	1.	a	4	\dagger	\dashv	+
		X	\perp					X			Total Dissolved Solids (TDS)	РРМ	7	0	-	0	-	H	6		9		+	+
_					İ		-				Total Organic Carbon (TOC)	PPM	+	-	6	-	-	H	1	~	+	\dagger	\dagger	+-
											Total Organic Halogen (TOX)	UG/L	-		3	_	_	\vdash	十	\dashv	+	+	+	+
								İ			Toxaphene	UG/L	-	-	4		$\overline{}$		+	\dashv	+	+	+	╫
										\Box	Turbidity	NTU	_	_	0		_	\vdash	\dashv	$\dot{+}$	+	+	$\dot{+}$	+
		X		Z				X			Zinc, Dissolved	UG/L	-	_	0	\dashv		\exists	2	a l	$\frac{1}{\sqrt{1}}$	+	╁	К
											2, 4-D, Total	UG/L		_	3		$\overline{}$	\dashv	4	+	+	+	+	十
											2, 4, 5—TP, Total	UG/L	$\overline{}$	_	0	_		\dashv	\dagger	\dagger	\dagger	+	+	+
		X		1			12				Phosphate	MG/L			-	7	\dashv	\dashv	\dagger		; ; ;	1	3 9	+
		\mathbf{x}					1				Total Xylene	UG/L		1		7	1	+	-				0	K
	_		\perp				İ							- 		1	1	+	$\frac{\cdot}{1}$	+	T	+	+	+>
_			Ţ				Ĺ						-	ij	1	1	+	\dagger	$\dot{+}$	+	\dagger	+	+	+
1		-					I			\int			_	- !	1	+	+	+	\dagger	+	+	+	+	+-
┇				İ].			T			- i	Ť	- i	+	7	+	+	-	+	\dagger	$\dot{+}$	+
				Ĺ						T			i	7	+	+	\dashv	\dagger	<u> </u>	<u>:</u> 1	+	+	+	+
Δί	1.1	E CO	וחנ	NIC	. p	111	E C	. ^	NI C	<u> </u>			59		_1		33	34		<u>i</u>			1	$\frac{1}{0+1}$

VALUE CODING RULES AND REMARK CODES ON REVERSE

Form VWX-016 4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

•	, G	ROUND WATER ANALYSIS —	VOLATILE ORGA	NICS RE	PORT	MW-	1
	PE OR PRINT WITH BAL	LLPOINT PEN	1				
FACILITY N	Apex Faci	lity		S	W 'D NC.		
LAB NAME	WOPERAT	IVE VENTURES, INC.					
Ţ	NJPDES NO. NJ 0 0 9 9 7 9	8 9 16	SAMPLE DATE YR. MO. DAY 9 0 1 0 1 9 17 22		AB CERT. NO.	WQM USE	
THE SCHEE	DULE INDICATED BELO	OW IS TO BE OBSERVED FROM MO.	818 TO 013191 YR. MG. YI	3	/*		
		SURMIT WITH SIG	NED T-VWX-014	0- 5			
SAMI	PLING MONTHS	:		DIFT. On a	ityindi. PROT 1 Meler Ricce		X
Apr. Apr.	May July Aug. Sept. Oct.	ANALYSIS	UN	Diversity	PARAMETER	VALUE	REMARKS
X	11111	Acrylonitrile	U	3/L :	3 4 2 1 5	50.	JK
X	<u> </u>	Benzene	U	3/L 3	4030	1/5/	K
		Bromoform	u	5/L 3	3 2 1 0 4	5.	K
X	<u> </u>	Carbon Tetrachloride	UC	6/L 3	2 1 0 2	1 2 2	K
X		Chlorobenzene	U	S/L 3	4 3 0 1	1 3.1	K
X		Chlorodibromoethane	UC		4306	1 5.1	K
	X	Chloroform	UC	i/L 3	12106		K
X		1, 1 - Dichloroethane	UG	i/L 3	4 4 9 6	5 -	
X	X	1, 2 - Dichloroethane	UG		4 5 3 1	1 5.1	__
		1, 1 - Dichloroethylene	UG		4501	5.	K
X		1, 2 - Dichloropropane	UG		4 5 4 1	5.1	K
X		Ethylbenzene	UG		4 3 7 1		K
X		Methylene Chloride	UG		4 4 2 3	5.	K
X	X	1, 1, 2, 2 - Tetrachloroethane	UG		4 5 1 6	5 2	K
X	X	Tetrachloroethylene	UG		4 4 7 5	5.	K
X	X	Toluene	UG			 	K
X	X	1, 1, 1 - Trichloroethane	UG		4506	5.	K

UG/L

UG/L

UG/L

UG/L

UG/L

UG/L

UG/L

UG/L

UG/L

UG/L

UG/L

UG/L

JG/L

UG/L

3 4 5 1 1

3 9 1 7 5

3 4 2 1 0

3 4 3 1 1

3 4 5 7 6

3 2 1 0 5

3 4 6 9 9

3 4 4 1 3

3 4 4 1 8

3 4 5 3 6

3 4 5 6 6

1

3 4 5 7

3 4 5 4

9 1 8 0

11.

0

5

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51.

5 ·

1, 1, 2 - Trichloroethane

2 - Chloroethylvinyl Ether

Dichlorobromomethane

1, 3 - Dichloropropylene

1, 2 - trans - Dichloroethylene

Trichloroethylene

Vinyl Chloride

Chloroethane

Methyl Bromide

Methyl Chloride

1, 2 Dichlorobenzene

1, 3 Dichlorabenzene

1, 4 Dichlorobenzene

Acrolein

X

X

X

X

VALUE CODING RULES AND REMARK CODES ON REVERSE

X

X

X

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

FACIL	ITY N		Ane		Fa		lity	•		TS:	V II	<u> </u>	0.								
LAB N	AME									L											
L			ان ر	PE	R A	17	VE	VENTURES, INC.	· · · · · · · · · · · · · · · · · · ·					-				<u> </u>			
F	3	NJ 0		9			·		PLE DATE MO. DAY / 0 9	N. [- 2	7	7	1	RT.	NO.	•		~		US	ε
THE	SCHE!	DULE IN	1DI	CAT	ED	BE	LOW IS	TO BE OBSERVED FROM OU 1818 TO	01319131 MO. YR.												
								SUBMIT WITH SIGNED T-VW.	K-014												
		LING M		_				•													
F 5 5	₹ ;	E P P	Aug	Sept.	<u>;</u>	Š.		ANALYSIS	UNITS		PAI	RAA	MET	ΓER			V	ALI	JE		-
X	X	X			X		Ele (as	vation of top of well casing with cap off specified in well completion report)	feet MSL: to nearest .01	T					T	12	4			9	ol
X	X	X		-	X		Ele	vation of original ground level specified in well completion report)	feet MSL: to nearest .01	1				-	1	T		0		3	
X	X	X)	4		Dep	oth to water table from top of casing prior to mpling with cap off	feet: to nearest .01	8	2	5	1	6	T		4			0	8
X	X	X		X	4		Dep	th to water table from original ground level for to sampling	feet: to nearest .01	7	2	0	1	9	T		\vdash	8	\dashv	4/8	+
<u> </u>	X	X	\perp	×	4		Arse	enic, Dissolved	UG/L as As	10	1	0	10	0	†	+		5	+	+	1
X	X	X	_	_ y			Bari	um, Dissolved	UG/L as Ba	+-		+-	+-	5	+-	1	_	0	+	+	1
	11	111	\perp		_	\perp	Bioc	hemical Oxygen Demand - 5 Day	MG/L	-	-	3	÷	lo	1				+	+	+
X	X		\perp	<u> </u>	-	1	Cad	mium, Dissolved	UG/L as Cd	4-	+-	0	+-	5	1			5	1	\dagger	1,
X	X	X	\perp	_\X		\perp	Chic	oride, Dissolved	UG/L as CI		+-	+-	+-	5	1,	5	6	0	_	+	+
X	X	X		<u> X</u>	L		Chro	omium, Dissolved	UG/L as Cr	_	_		-	0	广	1 - 1	\neg	0	_	\dagger	十
_ _ _	<u> </u>		4			\perp	Chro	omium, Dissolved, Hexavalent	UG/L as Cr	-	+-	+-	+-	-	H	H	ij	Ť	\dagger	+	+
			1	\perp		<u> </u>	Cher	nical Oxygen Demand (COD), Dissolved	MG/L	0	0	3	4	1	一		\dashv	+	+	十	十
11.			1	\perp	L	L	Coli	form Group	N/100 ML	7	4	0	5	6		Н	7	+	\dagger	+	十
-			1		L		Colo		Pt - Co	_	-	+	+	0			7	\dashv	\dagger	+	十
	X	X	\downarrow	<u> X</u>			Copp	per, Dissolved	UG/L as Cu	0	 	0	┼—	!			2	ol.	+	+	K
4	X	X		X		\perp	Cyan	ide, Total	MG/L as CN	+-	 	7	-	i -		+		0 .)	T
1 1			1	_			Endr	in, Total	UG/L	1	9	 	9	1 1		1	+	\ 	Ť	+	十
4	λ		_	X			Fluo	ride, Dissolved	MG/L as F	0	0	9	-	} 	\exists	+	+		6	17	†
111			\perp		L	L	Gross	Alpha, Dissolved	Pc/L			5	\vdash	i 1	7	\dashv	+	7	+	+	\dagger
1 1 1			\perp			L		Beta, Dissolved	Pc/L	1	_	5	_	3	\dashv	\dagger	\dagger	+	+	+	╁
						L	Hard	ness, Total as CaCO ₃	MG/L	-	_	9			\dashv	\dashv	\dagger	\dagger	十	十	╁
	<u> </u>	X	\perp	X	_		Iron,	Dissolved	UG/L as Fe	0		0	_	6	i	١,	5 0	+	十	+	\vdash
		N	\perp	N			Lead,	Dissolved	UG/L as Pb	0		0		9	\dashv	+		5	╁	╁	K
	1						Linda	ne, Total	UG/L	3	-	7	-	2	\dashv	+	+	+	+	 -	K
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NEW JEF Y DEPARTMENT OF ENVIRONMENTAL PROT' DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

TER QUALITY MANAGEMENT ELEMENT

Page 2

GROUND WATER ANALYSIS - MONITORING WELL REPORT

FACILITY NAME
Apex Facility

LAB NAME

LCC PERATIVE VENTURES INC.

CCC PERATIVE VENTURES, INC.

SAMPLE DATE

YR. MO. DAY

NJ 0 0 9 9 7 9 1

2 4 2 4 2 7 2 1

16 17 22 23 27 28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM OH 818 TO OBSERVED FROM MO. YR.

SUBMIT WITH SIGNED T-VWX-014

	\$	MA	PL	ING	M	ON.	TH	S																	
Feb.	Mar.	Apr.	May	June	Jul.	Aug.	Sept.	Oct.	Š	Dec.	ANALYSIS	UNITS	F	'AR	AN	IET	ER			V	/AL	.UE			
								L			Methoxychlor, Total	UG/L	3	9	4	18	0	i	T	T	Τ	Τ	Т		Ī
$oldsymbol{igstyle igytyle igstyle igytyle igytyle igytyle igytyle igytyle igytyle igstyle igytyle$	_										Methylene Blue Active Substances	MG/L	_	_	2	-			十	\dagger	T	T	T	П	r
	L	X		Ш	لع			X	L		Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N	MG/L as N		- -	6		+-		†	†	0		1	3	ŀ
L		X			X			X			Nitrogen, Nitrate, Dissolved	MG/L as N	┪	+	6	-	+-	-	T	\dagger	_	1.	_	و	ŀ
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	_										Total Organic Halogen (TOX)	UG/L	₩	 	3		!	П		H	\dashv	Ħ	\dashv	+	
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		\perp	_		\perp						2, 4, 5-TP, Total	UG/L	-		0	_		\Box	H	\dashv	\dashv	十	\dagger	+	
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VALUE CODING RULES AND REMARK CODES ON REVERSE

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Form VWX-016 4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

MW-2

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY	Apex Facility	•		SW ID NO.	
LAB NAME	LOOPERATIVE	VENTURES, INC.			· · · · · · · · ·
Ţ	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY 9 0 1 0 1 9 17 22	NJ LAB CERT. NO. 77505	WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM O YR. TO MC. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING!			•		VALUE
Heb. Mar. May	Sept.	å ANALYSIS	UNITS	PARAMETER	VALUE
X		Acrylonitrile	UG/L	3 4 2 1 5	50.
X		Benzene	UG/L	3 4 0 3 0	5.
X	$\frac{1}{1}$	Bromoform	UG/L	3 2 1 0 4	5.
	1 X	Carbon Tetrachloride	UG/L	32102	2.2
		Chlorobenzene	UG/L	3 4 3 0 1	5 . K
<u> </u>	X	Chlorodibromoethane	UG/L	3 4 3 0 6	5 · k
X		Chloroform	UG/L	3 2 1 0 6	
X		1. 1 - Dichloroethane	UG/L	3 4 4 9 6	
- X		1, 2 - Dichloroethane	UG/L	3 4 5 3 1	5 · K
X	X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	
X !	X	1, 2 - Dichloropropane	UG/L	3 4 5 4 1	
X	X	Ethylbenzene	UG/L	3 4 3 7 1	5. K
X		Methylene Chloride	UG/L	3 4 4 2 3	
X	X	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 6	5. K
X	X	Tetrachioroethylene	UG/L	3 4 4 7 5	
X	X	Toluene	UG/L	3 4 0 1 2	
X	X	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6	5 · K
X	X	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	
X	X	Trichloroethylene	UG/L	3 9 1 8 0	15. K
X	X	Vinyl Chloride	UG/L	3 9 1 7 5	5 . K
X	X	Acrolein	UG/L	╼╂╼┼╼┼╼┼═┼═╂═╌	11.51 K
X	X	Chloroethane	UG/L	- - - - - - - - - - 	50. K
X	X	2 - Chloroethylvinyl Ether		3 4 3 1 1	5 · K
X		Dichloropromomethane	UG/L	3 4 5 7 6	5. K
1 1 1	$\frac{1}{x}$	1, 3 - Dichloropropylene	UG/L	3 2 1 0 5	5 · K
1711	X	Methyl Bromide	UG/L	3 4 6 9 9	5 . K
X	1 121 -		UG/L	3 4 4 1 3	5. K
+ x + +		Methyl Chloride	UG/L	3 4 4 1 8	
 		1, 2 - trans - Dichloroethylene	UG/L	3 4 5 4 6	5. K
 	11	1, 2 Dichlorobenzene	UG/L	3 4 5 3 6	5. K
 	110	1, 3 Dichlorobenzene	IJG/L	3 4 5 6 6	5 · K
	<u> </u>	1, 4 Dichlorobenzene	{U3/L	3 4 5 7 1	15. K

VALUE CODING RULES AND REMARK CODES ON REVERSE

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

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									SUBMIT WITH SIGNED T-VWX	-014												
	s	AMF	LING	MO	NT	'HS				DIFT.	Ĵ.	•. · · ·						٠ _				XX
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M	$\perp \downarrow$	시	\bot	X	1	1	1		Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01							3	4	o		9/3	ء ا
X		$ \mathbf{x} $		X		X			Elevation of original ground level	feet MSL:	T					T	1			\neg		
	++	1	+	+	╁	1	╁	╀	(as specified in well completion report)	to nearest .01	+	1	Ť	_	-	╀-	၂၁	3	Ш	-	4	
M	$\perp \downarrow$	X		X	1	X	L	L	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8	2	5	4	6			3	9		4/2	الد
X		X		X		X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	7	2	0	1	9	T		3	7		9 0	J
X		X	Ш	X	\perp	X			Arsenic, Dissolved	UG/L as As	0	1	0	0	0	Τ			5	7	十	K
X	1 1	<u> </u>	<u> </u>	X		<u> X</u>			Barium, Dissolved	UG/L as Ba	0	1	0	0	5	T	a	c	\rightarrow		\top	K
_		\perp	1			<u> </u>		Ш	Biochemical Oxygen Demand - 5 Day	MG/L	0	0	3	1	0				j		\dagger	+
X	117	_	$\perp \downarrow$	X	\perp	X	L		Cadmium, Dissolved	UG/L as Cd	0	1	0	2	5				5		Ť	K
X	-	<u>(</u>	$\perp \downarrow$	刈	\perp	X		Ш	Chloride, Dissolved	UG/L as CI	8	2	2	9	5	1	5	_1	اه	ان	1	\top
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		\downarrow	\sqcup	\perp	\perp	\sqcup	_	\perp	Endrin, Total	UG/L	3	9	3	9	0			\exists	\top	İ	Ť	
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+	- -	\perp	$\perp \perp$		_	\sqcup	\perp	_	Gross Alpha, Dissolved	Pc/L	0	1	5	0	3			Ì	1	T	1	\Box
		$oldsymbol{\perp}$	\coprod	\bot		$\downarrow \downarrow$	\perp		Gross Beta, Dissolved	Pc/L	0	3	5	0	3		T	T	1	\top	T	\sqcap
		_				\sqcup		\perp	Hardness, Total as CaCO ₃	MG/L	0	0	9	0	0		\top	\top		1	Ť	\Box
<u> </u>	X	_		4		X	\perp	_	Iron, Dissolved	UG/L as Fe	0	1	0	4	6	T		5	٥١٥	,	T	K
	1	4_		<u> </u>	L	X			Lead, Dissolved	UG/L as Pb	0	1	0	4	9	Ť	\top		5 .	-	Ť	K
	1	_				Ш			Lindane, Total	UG/L	3	9	7	8	2	Ť	\dashv	Ť	T	Ť	\top	\sqcap
Y	√	<u> </u>			<u> </u>			\perp	Manganese, Dissolved	UG/L	0	1	0	5	6	Ť	11-	3 3	: 1.	+	\dagger	H
	<u> </u>	_		<u>\</u>		X			Mercury, Dissolved	UG/L	7	1	8	9	7	i	+	\neg	<u>. ا</u> د	5	+	K
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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES ATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

MW-3

Page 2

Y FASE TYPE OR PRINT WITH DALL BOINT BEN

FACILITY NA	ME Apex Facility	•		SW ID NO.	
LAB NAME	COOPERATIVE	VENTURES, INC.			
S	NJPDES NO. NJ0 0 9 9 7 9 1	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY 901019 17 22	NJ LAB CERT. NO. 77505	WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 014|818|

SUBMIT WITH SIGNED T-VWX-014

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Jan.	Feb.	Mar.	Apr.	May.	June	کاسر ا	Aug.	Sept.	oet.	Nov.	Dec.	ANALYSIS	UNITS	F	'AF	AN	1ET	ER	ł		•	/AI	LUE	Ē		REMARKS
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4				\perp	\perp		_				L	Methylene Blue Active Substances	MG/L	-	+	2	+	-	~+	十	+	T	†	†	十	
4		_	<u>X</u>	\perp		N	\bot		X			Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N	MG/L as N			6				1	十	1	١,	1,	\dagger	K
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VALUE CODING RULES AND REMARK CODES ON REVERSE

Form VWX-016 4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

NATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

MW-3

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY N	Apex Facility	•	· · · · · · · · · · · · · · · · · · ·	SW IN NO.	
LAB NAME	COOPERATINE	VENTURES, INC		· ——	
Ţ	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO. [24-24271-3	SAMPLE DATE YR. MO. DAY 901019 17 22	NJ LAB CERT. NO.	WOM USE
THE SCHE	DULE INDICATED BELOW IS T	O BE OBSERVED FROM MO.	318 TO 01319131		

SUBMIT WITH SIGNED T-VWX-014

	Sept.	ANALYSIS	UNITS	PARAMETER	VALUE
X	X	Acrylonitrile	UG/L	3 4 2 1 5	50.
X	X	Benzene	UG/L	3 4 0 3 0	5,
X	X	Bromoform	UG/L	32104	5.
	X	Carbon Tetrachloride	UG/L	32102	
X	X	Chlorobenzene	UG/L	3 4 3 0 1	5.
X	X	Chlorodibromoethane	UG/L	3 4 3 0 6	5,
X		Chloroform	UG/L	3 2 1 0 6	5,
X	X	1, 1 - Dichloroethane	UG/L	3 4 4 9 6	5.
. X	X	1, 2 - Dichloroethane	UG/L	3 4 5 3 1	5.
X	X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	5.
X	X	1, 2 - Dichloropropane	UG/L	3 4 5 4 1	5.
X	X	Ethylbenzene	UG/L	3 4 3 7 1	5,
X	X	Methylene Chloride	UG/L	3 4 4 2 3	5.
X	X	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 6	
X	X	Tetrachloroethylene	UG/L	3 4 4 7 5	5.1
X	X	Toluene	UG/L	3 4 0 1 2	5.
X	X	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6	15.
X	X	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	5 .
X	X	Trichloroethylene	UG/L	3 9 1 8 0	5.
X	X	Vinyl Chloride	UG/L	3 9 1 7 5	51.
X	X	Acrolein	UG/L	╼╂╼┼╼┼╼┼╼┼	111.5
X	X	Chloroethane	UG/L		50.
X	N	2 - Chloroethylvinyl Ether	UG/L		5.
X	T V	Dichlorobromomethane		┍╏═┆═╎╸╏┈╏┈╏	5.
X		1, 3 - Dichloropropylene	UG/L UG/L	3 2 1 0 5	5 .
1211	1	Methyl Bromide	UG/L	3 4 6 9 9	5.
X	X	Methyl Chloride		3 4 4 1 3	5 ,
X	X	1, 2 - trans - Dichloroethylene	UG/L	3 4 4 1 8	5.
X	1	1, 2 Dichlorobenzene	UG/L	3 4 5 4 6	1511
X		1, 3 Dichlorobenzane	UG/L	3 4 5 3 6	151.
X		1, 4 Dichlorubenzene	UG/L UG/L	3 4 5 6 6	5.

VALUE CODING RULES AND REMARK CODES ON REVERSE

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

MW-4

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

PLEA	ASE TYP	E OR P	RIN	T WI	ТН	BA	LLI	POINT PEN													
FAC	ILITY	IAME	Аp	ex	Fa	ci	li	ty		SY	/ 10	V.(5 .								
LAB	NAME							IVE VENTURES, INL													
Ti	R 1	NJ[(0 0	NJPC	9	NC). 9	WELL PERMIT NO. SAMP YR. 1 1 24-24270-5 90/	LE DATE MO. DAY 0 / 9 22 0 3 9 3	22.	-	B C	<u> </u>	T. N	10.	· J	1	w	OM [USI	E
								SUBMIT WITH SIGNED T-VWX		•						7 70	•	•			
Jan.		PLING	_			Nov.	Dec.	ANALYSIS	D.	D.	7.		1.		1	<u> </u>	· • • •	ALL			REMARKS
X	x	;			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL:	T			-			2	lu	a	П	، اد	
X	Х		4		X	1	1	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01	\dagger	<u> </u>	٠,			T			0		T	
X	X	,			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8	2	5	4	6		Ť	П	9	1	0 8	╅
X	X	x			기			Depth to water table from original ground level prior to sampling	feet: to nearest .01	7	2	0	1	9		П				7	4
X	X	1/			X		\perp	Arsenic, Dissolved	UG/L as As	0	1	0	0	0		П		5	_	十	K
X	<u> X </u>	7	<u>\</u>		<u> </u>	\perp	\perp	Barium, Dissolved	UG/L as Ba	10	1	0	0	5		a	0	0	1	十	K
		11			1	\perp	\perp	Biochemical Oxygen Demand - 5 Day	MG/L	0	0	3	1	lo			Ĭ	Ť	Ť	十	+
X.	X	<u> </u>			X			Cadmium, Dissolved	UG/L as Cd	0	1	0	+-	5		Í		5	\top	Ť	K
X	X	X	L		X			Chloride, Dissolved	UG/L as CI	8	2	2	+	5		0	\neg	_	ं	十	+
X	X	1 1	L		<u>N</u>	\perp	\perp	Chromium, Dissolved	UG/L as Cr	-1-	1	0	+	-	H		7		,	\dagger	1
			<u> </u>	Ц		\perp	\perp	Chromium, Dissolved, Hexavalent	UG/L as Cr	0	1	2	2	0	П	\exists	Ť	Ť	十	+	十
							-	Chemical Oxygen Demand (COD), Dissolved	MG/L	10	0	3	╌	+	Н	\dashv	1	+	十	+	+
					\perp			Coliform Group	N/100 ML	7	4	0	5	•		\dashv	7	十	十	\dagger	+
								Color	. Pt - Co	0	0	0	8	0		\dashv	\dashv	十	十	+	+
X	X	X		ly				Copper, Dissolved	UG/L as Cu	0		1	_	_	1	\dashv	2	7	+	十	K
X	X	<u> </u>		X				Cyanide, Total	MG/L as CN	+		7	-	-	1	+		ol.	·	1	K
$\perp \downarrow \downarrow$								Endrin, Total	UG/L	_	_	3	-		\dashv	\dashv	+	-	+	+	+
시	X	X		Х	1			Fluoride, Dissolved	MG/L as F	+	_	9	-		\forall	Ť	+	٥,	3	+	K
\perp								Gross Alpha, Dissolved	Pc/L	0	_	5		1	\dashv	寸	Ť	7	+	十	1
								Gross Beta, Dissolved	Pc/L	-		5	I		\dashv	Ť	\dagger	十	十	+	H
							T	Hardness, Total as CaCO ₃	MG/L	0		9	-	-	\dagger	+	\dagger	+	+	十	H
X	X	X		X			1	Iron, Dissolved	UG/L as Fe	0	-	-	-	6	ᅷ	1	5 10	$^{+}$	+	+	\Box
X	X	X		X			l	Lead, Dissolved	UG/L as Pb	╂╌┤		0		9	\dagger	十		5 .	-+	+	T.
							l	Lindane, Total	UG/L	3	_		-	2	\dagger	+	+	716	\dagger	$\dot{+}$	K
X	X	X		X			٨	Manganese, Disselved	UG/L	0			-	6	<u> </u>	+	71~	$^+$	+	+	Ӈ
X	X	χ		1/.			٨	Mercury, Dissolved	UG/L	7		8	\dashv	0	+	+	110	<u>) .</u>	15	+	KK
	LUE CO						Ε			29 42 55 68				33 46 59 72	47					40 53 66	41 54 67 80

/83 ~

SAMPLING MONTHS

VALUE CODING RULES AND

REMARK CODES ON REVERSE

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL DIVISION OF WATER RESOURCES ALTAUTECTION

ATER QUALITY MANAGEMENT ELEMENT

DEPT. OF THE

Division Vinter Facermoon

33 34 46 47

42 55 68

Page 2

GROUND WATER ANALYSIS - MONITORING WELL REPORT

LEASE TYPE OR PRINT WITH BALLPOINT PEN ACILITY NAME ISW ID NO. Apex Facility AB NAME VENTURES, INC. COOPERATIVE SAMPLE DATE NJPDES NO. WELL PERMIT NO. YR. | MO. | DAY NJ LAB CERT. NO. WQM USE S 0 9 9 7 THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM

SUBMIT WITH SIGNED T-VWX-014

ů,	, Š	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	Buresu UNITS		AR							/Δ1	.UE			REMAI
I				İ						Π	Methoxychlor, Total	UG/L	-	9			_		T	Ť	T	T	П	_	_
\perp								Π			Methylene Blue Active Substances	MG/L	-1-	8	 -	+	-		+	+	╁	+	H	\dashv	ᅦ
(X			X			X			Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N		_	0	-			_	+	十	U	+		2	ᅱ
4		X			X			X			Nitrogen, Nitrate, Dissolved	MG/L as N	4-	0	+-	-	+-	-	+	+	8	+	1	2	ᅱ
\perp											Odor	T.O.N.	+-	0	-	-	-	—	十	\vdash	١	屵	╁	쒸	\dashv
1	\perp	X		1	X			X			рН	Standard Units	-	0		+-	+-	+	+		7	1.	$\frac{1}{i}$	4	\dashv
	\perp										Phenois, Total Recoverable	UG/L		2	4	┵		+-	\dagger	-		F	╁┼	귀	Ⅎ
\perp	1			j							Radium 226, Dissolved	Pc/L	-	9	+	-			Ť	 	H	 		\dashv	┨
\perp	L										Radium 228, Dissolved	Pc/L	+	1	-		-		十			一	十	\dashv	\dashv
1	\perp	X		1	X			X			Selenium, Dissolved	UG/L	+	1	-	+—	5	-	T		5	\vdash	$\vdash \vdash$	+	N
\perp		X	\perp	ŀ	X			X			Silver, Dissolved	UG/L	0	┼	0	╄—	5	╀	H	2		ì		+	F.
			\perp								Sodium, Dissolved	MG/L	}	0	₩-	╄	₩	1_	-	a	Ĭ	۲	\dashv	╣	ł
\perp		X			K			X		\exists	Sulfate, Dissolved (as SO ₄)	MG/L	┿	0	+	+	-	-		b		H	\vdash	+	┨
\perp		X		,				X			Total Dissolved Solids (TDS)	PPM	-	0	_	┼	-	+	_	3	_	٠	+	+	\dashv
					Ī		-				Total Organic Carbon (TOC)	РРМ	-	0	├-		╄	┢	3	3			\dashv	+	\dashv
\mathbb{L}			T	T	T	T	T				Total Organic Halogen (TOX)	UG/L		0	-	-	1	\vdash	\vdash	+			+	+	\dashv
			T	1	T		T	Ī	T		Toxaphene	UG/L	_	9	_		_	₽-	-	+	\dashv	\dashv	\dashv	+	\dashv
					1	T		T		1	Turbidity		-	0	_	-	6			+	\dashv	ᅢ	\dashv	+	\dashv
		X		İx	(T	1	X		7	Zinc, Dissolved	· · · · · · · · · · · · · · · · · · ·		1			_		H	2	$\frac{1}{2}$	\dashv	+	+	+
						T	T	T	\neg	1	2, 4-D, Total		_	9	- i		_	Н		٦	쒸	\dashv	+	1	4
					T			1	T		2, 4, 5—TP, Total			9	1				+	\dashv	\dashv	\dashv	+	+	+
		χ		X		T	1)	(Phosphate	MG/L			1	-		-	-	\dashv	6	\dashv	51	+	┨
		X		-	Ī		1	K	T		Total Xylene	UG/L	7		\dashv	一	_	 	-	1	-		ᅫ	+	$\frac{1}{2}$
		T			T	T	T	Ì		T		00,2	1	\dashv	-	\dashv	-	+		_	<u>/ </u>	-	+	+	¥
		T	i		T	T	T	T	1	1			-	+	1	_	\dashv	-	-	\dashv	+	\dashv	+	+	+
				İ	1	1	T	1	\top	T			+	1	\dashv	\dashv	\dashv	+	\dashv	\dashv	\dashv	\dashv	+	+	\downarrow
			1	T	1	Ť	†	\dagger	\dagger	+			-	Ť	\dashv	\dashv	\dashv	-	-	1	+	\dotplus	+	+	$\frac{1}{2}$
	Ī		T		Ť	Ť	İ	十	\dagger	T				+	\dashv	-	-	_	+	$\frac{1}{1}$	+	\dotplus	+	+	$\left\{ \right.$
		<u> </u>			<u> </u>							<u> </u>	┙							_ -	\perp		ł	1 .	1

NEW JETTEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES WATER QUALITY MANAGEMENT ELEMENT

MW-4

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN FACILITY NAME SW IL NO. Apex Facility LAB NAME COOPERATIVE VENTURES, INL.

NJPDES NO. Ţ NJ 0 0 9 9

WELL PERMIT NO.

SAMPLE DATE YR. | MO. | DAY

NJ LAB CERT. NO.

WOM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR.

0131913 MG. YR.

SUBMIT WITH SIGNED T-VWX-014

CALIFIE ING MONTHING	, ,		•
SAMPLING MONTHS	· · · · · · · · · · · · · · · · · · ·	•	מוניסוד ביוני לונים ליים ליים ליים ביים ביים ביים ביים בי
Mar, May May Jung Sept Oct, Nov.	analysis		UNITS DIVPARAMETER VALU

Jan. Feb	Mar.	May June	<u>ام</u>	Aug.	Sept	95	Ž	Dec	ANALYSIS	UNITS	Lri.	A	RA	ME	ΤE	 R∵	697 1327	· VA	Gil LLUE		REMAI
\bot	X	\perp				X			Acrylonitrile	UG/L	=4-7:	3	4	2	1	5	1	1	6	T	IK
	. X					X	L		Benzene	UG/L		3 1	4	0	3	0	T	1	5		K
	X	\perp				X			Bromoform	UG/L		3	2	1	0	4	丁	\top	5.		K
	X	Ш				x			Carbon Tetrachloride	UG/L		3	2	1	0	2	\top	,	<u>ء</u>	12	-
	X	Ш				X			Chlorobenzene	UG/L		3	4	3	0	7	十	\Box	<u>5</u> 1.	1	K
	X	Ш				X			Chlorodibromoethane	UG/L	3	3 /	4	3	o	6	\top	\Box	<u>31.</u>	\top	K
	X	$oxed{oxed}$				צ			Chloroform	UG/L	13	3	2	1	c	6	\top		51.	1	K
	X					X			1, 1 - Dichloroethane	UG/L	3	1	4 /	:	9	6	+	11	31.	1	K
	. X	Ш		\perp		X			1, 2 - Dichloroethane	UG/L				_	3		\top	\Box	5.	1	K
	X	Ш		1		X			1, 1 - Dichloroethylene	UG/L	_	1	_	5		1	十	\Box	51.		_ K
	X			\perp	_	X			1, 2 - Dichloropropane	UG/L	3	1	-	5	÷	7	\top	_	3	\top	K
$\perp \downarrow$	X			\perp		X			Ethylbenzene	UG/L	3	1			7	1	+		51.	1	K
$\perp \downarrow$	_X_	\sqcup	\perp	\perp		X			Methylene Chloride	UG/L	3	1	1	4	2	3	\top	+	51.	\Box	
Ш	X	Ш				X			1, 1, 2, 2 - Tetrachloroethane	UG/L		1	-	5	_	6	+		51.	\Box	K
\sqcup	X	Ш				X			Tetrachloroethylene	UG/L	3	-	-	1	-	5	\top	_	<u>5</u>	H	
	X					X			Toluene	UG/L	3	-	-	-	1	_	T		<u>इ</u>	H	
	X					X			1, 1, 1 - Trichloroethage	UG/L	3		_	-	0		1		5.	\Box	1
						X		T	1, 1, 2 - Trichloroethane	UG/L	_	_	. !	_	-+	1	十		5 .	1-1	出
	X					X		\neg	Trichloroethylene	UG/L					В		1	_	<u>5</u> 1.	H	
	X		T			X			Vinyl Chloride	UG/L		_	1		7		+		<u> </u>	5	17
	X		Т	1	T	X	\exists		Acrolein	UG/L	_		_		1		╁	5		-	K
	X		Т	T		X	T	T	Chloroethane	UG/L			_	_	1		+-		<u>.</u>	╁┼	_
П	X	П	7	Τ	7	X		\Box	2 - Chloroethylvinyl Ether	UG/L		-			7	•	十		3 · 5 .	╁╁	<u> </u>
	Х		1	T	7.	X	7	丁	Dichlorobromomethane	UG/L	-	2	-	-) !		+-		5 .	╁┼	<u> </u>
П	X			7	1	χĺ	\top	一	1, 3 - Dichloropropylene	UG/L	3	4	+-		1		+-		<u>} .</u>	\vdash	K
П	K		\top		1	V	7	1	Methyl Bromide	UG/L	3	<u> </u>	+-	-	+			_	<u>5 .</u>		-
	X		1	1	1	(7	7	Methyl Chloride	UG/L	3	╄	+	+-		3	+-		3)·	-	K
П	X		\top	T	_	X	+		1, 2 - trans - Dichloroethylene	UG/L	3	-	4	4	1 6		+-				K
	X		\top	\top		Χİ	T		1, 2 Dichlorobenzene	UG/L							+		<u>5</u> .	\vdash	15
	X		T	T			T		1, 3 Dichloropenzene	UG/L	3				6		╁┤	=		$\vdash \vdash$	151
	X	T	T	T		1	T	-	1, 4 Dichloroberzene	U3/L		4		_	+	_	1-1	1		+	1

VALUE CODING RULES AND REMARK CODES ON REVERSE

Porm T-VWX-014 \$/\$3 V(-)

NEW JE' Y DEPARTMENT OF ENVIRONMENTAL F DIVISION OF WATER RESOURCES

TECTION

\$15/83

MONITORING REPORT - TRANSMITTAL SHEET

NJPDES NO.

REPORTING PERIOD

.... Bes

MO. YR.

MO. YR.

0 0 9 9 7 9 1

[0,5|8,9] THRU [0,7|8,9]

	•		
PERMITTEE:	NameVictaulic Company	of America	
_	Address Box 31; 4901 Kess1	erville Road	
	Easton, PA 18042		
FACILITY:	Name Apex Facility		
	Address Edison Road		
	New Village, NJ	(County) Warren	
	Telephone (201) 859-0085		
FORMS ATTAC	HED (Indicate Quantity of Each)	OPERATING EXCEPTIONS	
SLUDGE REPORT	S-SANITARY		YES NO
T-VWX-00	07 T-VWX-008 T-VWX-009	9 DYE TESTING	
SLUDGE REPORT	S · INDUSTRIAL	TEMPORARY BYPASSING	
7 T-VWX-01		DISINFECTION INTERRUPTION	
		MONITORING MALFUNCTIONS	
WASTEWATER RE	C 0134 C	UNITS OUT OF OPERATION	
1 T-VWX-01	1 1 T-VWX-833 2 T-VWX-01:	3 OTHER	
GROUNDWATER F	REPORTS	(Datail any "Yes" on a service	_ _
4 VWX-015(A,B) 4* VWX-016 VWX-017	(Detail any "Yes" on reverse side in appropriate space.)	
NPDES DISCHARG	E MONITORING REPORT * May & Nov 4 3320-1	NOTE: The "Hours Attended at Portion of this sheet must also be continued in the continued in the new terms and the continued in the continued in the new terms and the continued in the new terms are new terms and the new terms are new terms and the new terms are new terms and the new terms are new terms and the new terms are new terms and the new terms are new terms and the new terms are new terms and the new terms are new terms are new terms.	
AUTHENTICATI	of those individuals immediate submitted information is true.	that I have personally examined and am indocument and all attachments and that, lely responsible for obtaining the informat accurate and complete. I am aware that niformation including the possibility of file	ion, I believe the
LICENSED OPER	ATOR	PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIV	Ε
Name (Printed) _		Name (Printed) DAVIDS.	Becby
Grade & Registry I	No	Title (Printed) VICE PRES	dent-MFG
Signature		Signature	127
Date		. Date 8/15 /ET	

NEW JETTSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

MW-1

WATER QUALITY MANAGEMENT ELEMENT

SAMPLING MONTHS					INKS
Feb. Mar. Apr. May Jung July Aug. Sept. Oct.	ANALYSIS	UNITS	PARAMETER	VALUE	NEMANKS
	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		352.51	
	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		351.0	
	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8 2 5 4 6	40.26	-
	Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9	38.75	
	Arsenic, Dissolved ToTal	UG/L 25 As	0 1 0 0 0	1 0 02	\Box
	Barium, Disselved ToTal	UG/L as 3a	0 1 0 0 5	10.2	$\overline{\cdot}$
	Biochemical Oxygen Demand - 5 Day	MG/L	0,013 110		
	Cadmium, Disselved ToTal	UG/L as Cd	0 1 0 2 5	1 0.05	\neg
x x	Chloride, Dissolved ToTal	UG/L as CI	8 2 2 9 5	1111.0	\exists
	Chromium, Dissolved Total	. UG/L as Cr	01030	K101,105	\exists
	Chromium, Dissolved, Hexavalent ToTal	UG/L'as Cr	0 1 2 2 0	10.05	\exists
	Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1		\dashv
	Coliform Group	N/100 ML	7 4 0 5 6		7
	Color	Pt - Co	00080		٦.
	Copper, Dissolved Total	UG/L as Cu	0 1 0 4 0	0.03	7
	Cyanide, Total	MG/L as CN	0 0 7 2 0	101.04	7
	Endrin, Total	UG/L	3 9 3 9 0		\dashv
	Fluoride, Dissolved ToTal	MG/L as F	0 0 9 5 0	1 101. 21	7
	Gross Alpha, Dissolved	Pc/L	0 1 5 0 3		\exists
	Gross Beta, Dissolved	Pc/L	0 3 5 0 3		7
	Hardness, Total as CaCO ₃	MG/L	0 0 9 0 0		十
	Iron, Dissolved Total _ =	UG/L as Fe	0 1 0 4 6	1/9/8	7
	Lead, Dissolved ToTal	UG/Las Pb	0 1 0 4 9	0.03	\dashv
	Lindane, Total	, UG/L	3 9 7 8 2		\dashv
X X X	Manganese, Dissolved Total	UG/L	0 1 0 5 6	0.49	7
	Mercury, Dissolved ToTal .	UG/L	7 1 8 9 0	<10.0005	\dashv
	·		29 33 3		<u></u> '

/ALUE CODING RULES AND REMARK CODES ON REVERSE

* Measured on t-21-89 by DRAI \$5

33 34 46 47 59 60

OPERATMENT OF ENVIRONMENTAL PROTE ON DIVISION OF WATER RESOURCES

'ATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

ASE TYPE	E OF PRINT WITH BALLPOINT	PEN			
BLITY N.	Apex Facility			SWID NO.	
NAME	Cooperative	Ventures, Inc.			
S	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO. 2 4 - 24 2 73 - 0	SAMPLE DATE YR. MO. DAY 8 90 6 2 7	NJ LAB CERT. NO. 7 7 50 5	WOM USE
∃E SCHE	DULE INDICATED BELOW IS 1		19 TO 12 8 9 NO. YR.		

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS				
Mar. Apr. July Aug. Sept. Oct.	ANALYSIS	UNITS	PARAMETER	REMARKS .
	Methoxycnior, Total	UG/L	3 9 4 8 C	
	Methylene Blue Active Substances	MG/L	3 8 2 6 0	
	Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N	MG/L as N	0 0 6 0 8	<0.1 u
X X X	Nitrogen, Nitrate Dissolved ToTal	MG/L as N	0 0 6 1 8	6.8
	Odor	T.O.N.	010085	
X X X	На	Standard Units	0 0 4 0 0	7.75
	Phenois, Total Recoverable	UG/L	3 2 7 3 0	
	Radium 226, Dissolved	Pc/L	0 9 5 0 3	
	Radium 228, Dissolved	Pc/L	8:1:3:6:6	
x x x	Selenium, Dissolved Total	UG/L	0 1 1 4 5	K0.005
x x x	Silver, Dissolved Total	. UG/L	0 1 0 7 5	<0.02
	Sodium, Dissolved	MG/L	0 0 9 3 0	
	Sulfate, Dissolved (as SO4) Total	MG/L	0 0 9 4 6	1/8/5.0
x x x	Total Dissolved Solids (TDS)	РРМ	7 0 3 0 0	5711.0
	Total Organic Carbon (TOC)	РРМ	0 0 6 8 0	
	Total Organic Halogen (TOX)	UG/L '	7 0 3 5 3	
	Toxaphene	UG/L	3 9 4 0 0	
	Turbidity	NTU	0 0 0 7 6	
x x x	Zinc, Dissolved Total	UG/L	011090	01.46
	2, 4-D, Total	UG/L	3 9 3 7 0	
	2, 4, 5—TP, Total	UG/L	3 9 0 4 5	
<u> </u>	Phosphate =	MG/L		0.46
X	Total Xylene	UG/L		1215 u
	-			
				.
UE CODING RULES AND				40 41
104 000500405			42 46 47 55 59 60	22 27

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

EASE TYPE OR PRINT WITH BALLPOINT PEN

ACILITY NAME

Apex Facility

AB NAME

Cooperative Ventures, Inc.

NJPDES NO.

WELL PERMIT NO.

YR. MO. DAY

NJ LAB CERT. NO.

WOM USE

T NJ 0 0 9 9 7 9 1 2 2 4 2 7 3 0 8 9 06 27 7 7 1 6 6 2 2 2 2 3 27

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 10 11 819 TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS				Š
Feb. Mar. Apr. May June July Aug. Sept.	ANALYSIS	UNITS	PARAMETER	VALUE
X	Acrylonitrile	UG/L	3 4 2 1 5	<5010
	Benzene	UĠ/L	3 4 0 3 0	1 < 5 1 0
	Bromoform	UG/L	3 2 1 0 4	K 5 U
	Carbon Tetrachloride	UG/L	3 2 1 0 2	1 <2.2 U
X X	Chlorobenzene	UG/L	3 4 3 0 1	1 (5 U
	Chlorodibromoethane **	UG/L	3 4 3 0 6	1 < 5 1
	Chloroform	UG/L	3 2 1 0 6	1 < 15 1 u
K K	1. 1 - Dichloroethane	UG/L	3 4 4 9 6	1 12 5 1 1
X	1, 2 - Dichioroethane	UG/L	3 4 5 3 1	1 < 5 u
X X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	1 < 5 u
K K	1, 2 - Dichloropropane	UG/L	3 4 5 4 1	1 < 5 u
X X .	Ethylbenzene	UG/L	3 4 3 7 1	1 < 5 1 4
	Methylene Chloride	UG/L	3 4 4 2 3	1 < 15 U
	1, 1, 2, 2 - Tetrachioroethane	UG/L	3 4 5 1 6	1<511
k	Tetrachloroethylene	UG/L	3 4 4 7 5	1 < 51 1 u
	Toluene	UG/L	3 4 0 1 2	1 < 15 u
K	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6	1 < 5 u
K K	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	1 < 5 1 u
K	Trichloroethylene	UG/L	3 9 1 8 0	1 < 151 u
	Vinyl Chloride	UG/L	3 9 1 7 5	<111.15 U
	Acrolein	UG/L	3 4 2 1 0	1<150 a
K	Chloroethane	UG/L	3 4 3 1 1	1 (151 1 u
	2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6	K 5 u
	Dichlorobromomethane ,	UG/L	3 2 1 0 5	1(5) u
	1, 3 - Dichloropropylene	UG/L	3 4 6 9 9	
K K	Methyl Bromide	UG/L	3 4 4 1 3	
K K	Methyl Chloride	UG/L	3 4 4 1 8	1- < 5 u
X	1, 2 - trans - Dichloroethylene	- UG/L	3 4 5 4 6	1 < 5 4
	1, 2 Dichlorobenzene	UG/L	3 4 5 3 6	
	1, 3 Dichlorobenzene	UG/L	3 4 5 6 6	
	1, 4 Dichiorobenzene	UG/L	3 4 5 7 1	
•			29 33 3	40 43

TALUE CODING RULES AND SEMARK CODES ON REVERSE

SEY DEPARTMENT OF ENVIRONMENTAL PR DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT SLEMENT

THON MW-1

GROUND WATER ANALYSIS - MONITORING WELL REPORT

2 5 4 6 5 7 12 1				ROUND WATER ANALYSIS – MONITOR	RING WELL R	EPORT	•
FACILITY NA	AME	ex Fac				ISW ID NO.	
LAB NAME				ive Ventures, Inc.		1	
		ooper	<u>a c</u> .	ive ventures, inc.			
R	NJ 0 (NJPDES I		WELL PERMIT NO. YR. I	10. DAY 07 2 0	NJ LAB CERT. N 7 7 5 0 5 23 27	O. WOM USE
THE SCHE	DULE INC	ICATED I	BEL	OW IS TO BE OBSERVED FROM ON STORE TO	1 2 8 9 MO. YR.		
				SUBMIT WITH SIGNED T-VWX	-014	1.	. 111
Fab. Mar. Apr. Apr.	LING MO				∌: UNITS	PARAMETER	HEMAINKS STAN
-		1 1 1	1	·		- Transite I En	VALUE S
X X	X	X	+-	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		;
X X	x	X		Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		
\mathbf{x}	x	x	-	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8 2 5 4 6	
< x	X	X	_	Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9	
< X	X	X	<u> </u>	Arsenic, Dissolved	UG/L as As	0 1 0 0 0	100.005
<	X	X	1	Barium, Dissolved	UG/L as Ba	0 1 0 0 5	
	1 ! !	11.1	_	Biochemical Oxygen Demand - 5 Day	MG/L	0 0 3 1 1 0	
	X	x		Cadmium, Dissolved	UG/L as Cd	0 1 0 2 5	10001
	x	X	.	Chloride, Dissolved	UG/L as CI	8 2 2 9 5	11011
	X	X		Chromium, Dissolved	UG/L as Cr	0 1 0 3 0	
	X	x		Chromium, Dissolved, Hexavalent	UG/L'as Cr	0 1 2 2 0	
			•	Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1	
				Coliform Group	N/100 ML	7 4 0 5 6	
				Color	Pt · Co	00080	
X	x	x		Copper, Dissolved	UG/L as Cu	0 1 0 4 0	10.02
X	X	X		Cyanide, Total	MG/L as CN	0 0 7 2 0	<0.02
	1 1 1			Endrin, Total	UG/L	3 9 3 9 0	
$ _{X} $	$ _{X} $	_X		Fluoride, Dissolved	MG/L as F	0 0 9 5 0	101.25
				Gross Alpha, Dissolved	Pc/L	 	1/01/12/21
				Gross Beta, Dissolved	Pc/L	0 1 5 0 3	
				Hardness, Total as CaCO ₃	MG/L	0 0 9 0 0	
X	X	Х		Iron, Dissolved	UG/L as Fe	0 1 0 4 6	
X	X	X		Lead, Dissolved	UG/L as Pb	┞┈┊┈┊┈ ┆┈┧┈	<0.05
				Lindane, Total	UG/L	 	<0.005
X	X	x		Manganese, Dissolved	UG/L	3 9 7 8 2	
×	X	X	\dashv	Mercury, Dissolved		0 1 0 5 6	
	' '	10 - 1 - 1			UG/L	7 1 8 9 0	

VALUE CODING RULES AND REMARK CODES ON REVERSE 7 1 8 9 0 | | 29 33 34 42 46 47 55 59 60 68 72 73

'ATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

MWI

EASE TYPE OF PRINT WITH BALLPOINT PEN ACILITY NAME SW ID NO. Apex Facility ABNAME Cooperative Ventures, SAMPLE DATE NJPDES NO. WELL PERMIT NO. NJ LAB CERT. NO. YR. | MO. | DAY WOM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM

SUBMIT WITH SIGNED T-VWX-014

Apr. May	June	A S	20	Ž i	ANALYSIS	UNITS	P	AR	ΑM	ET.	ER		٧	'ALI	UE		
				1	Methoxychlor, Total	UG/L	3	9	4	8	C	ii	1	Ī	İ		_
		_	<u> </u>		Methylene Blue Active Substances -	MG/L	3	8	2	6	0		1	İ			-
x	X		<u> </u> x		Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N	MG/L as N			6				i	İ		i	-
x	X		X		Nitrogen, Nitrate Dissolved	MG/L as N			6	-	i		Ť	6		8	_
					Odor	T.O.N.	0	0	0	8	5	 	<u> </u>			Ť	_
x	X	1	X		рН	Standard Units	lo	0	4	0	0		Ť			1	_
		-			Phenois, Total Recoverable	UG/L	3	2	7	3	0	1	1			+	_
<u>i i :</u>	<u> </u>	j	İ		Radium 226, Dissolved	Pc/L	0	9	5	0	13		<u> </u>			!	_
111			!		Radium 228, Dissolved	Pc/L	+-		3	-			i -			<u> </u>	_
x	X		X		Selenium, Dissolved	UG/L	0	1	1	4	5		Ť				_
X	X	-	X		Silver, Dissolved	UG/L	0	1	0	7	5		; -		; i	+	-
					Sodium, Dissolved	MG/L	+-	÷	9	-			1		i	-	
$ \mathbf{x} $	X		X		Sulfate, Dissolved (as SO ₄)	- MG/L	_	_	9	-	-		İ	2		0	-
k	x	ĺ	X		Total Dissolved Solids (TDS)	PPM	-+	: -	3				<u> </u>			+	_
		-	1		Total Organic Carbon (TOC)	PPM		-	6		-	H	 		i	i	-
		İ	İ		Total Organic Halogen (TOX)	UG/L			3			 -	:	<u></u>	-	- 	-
					Toxaphene	UG/L			4				!		- 	- ;	_
		į			Turbidity	NTU		_	0					\vdash	i		_
$\frac{1}{2}$	k	T	k		Zinc, Dissolved	UG/L			0	_		 	2	0	<u>-</u>	0	-
					2, 4-D, Total	UG/L		-	3	_							<u>.</u>
					2, 4, 5–TP, Total	UG/L		9	_	4	5				+	-	_
X	x		X		Phosphate ' =	MG/L	1			_			\vdash		\dashv	+	_
X		T	X	T	Total Xylene	UG/L	\dagger	†				-			- <u>!</u>	+	_
			İ				1-	İ					<u> </u>		ij	-	_
		T		İ			╁	<u> </u>					 			- <u>i</u>	_
į !	!!						+	1	:				· 		- 	<u> </u>	_
!		1.		İ		· · · · · · · · · · · · · · · · · · ·	+		<u>-</u>						- 	+	
	11	Ī	1 1	i			+-	<u>. </u>	-			,	!		- ;	<u> </u>	_

EMARK CODES ON REVERSE

53 54 66 67 19 80

NEW J SEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

- WATER QUALITY MANAGEMENT ELEMENT

mw-2

GROUND WATER ANALYSIS - MONITORING WELL REPORT

EASE TYPE OR PRINT WITH BALLPOINT PEN

					
ACILITY NA	Apex Facility	•		ON CI WE	
AB NAME	Cooperative V	Ventures, Inc.			
R	NJPDES NO. NJ 0 0 9 9 7 9 1 8	WELL PERMIT NO. 2 4 -2 4 2 72 -1	SAMPLE DATE YR. MO. DAY 8 9 0 6 2 7 17 22	NJ LAB CERT. NO. 7 7 5 0 5 27	WQM USE
THE SCHE	DULE INDICATED BELOW IS T		8 ₁ 9 YR. то 1 1 2 8 ₁ 9 1 мо. YR.		

SUBMIT WITH SIGNED T-VWX-014

SAMPLI	NG M	ONTHS	;					•	ž
Feb Mar. Apr. May	Jun.	Aug. Sept.	No.t.	Dec.	ANALYSIS	ZTINU	PARAMETER	VALUE	REMARK
x	x		x		Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		3411.90	
x	Х		x		Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		340.3	
x	X		x		Depth to water table from top of casing prior to sampling with cap off	feet: to nearest 01	8 2 5 4 6	35.82)
x	X		x		Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9	34.22	
x	x		x !		Arsenic, Dissolved ToTal	UG/L as As	0 1 0 0 0	10.005	1
_ : 'x ! -!	X		X T	!	Barium, Dissolved ToTal	UG/L as Ba	0 1 0 0 5	<0.2	\square
1 ! ! !	! !	i j	1	i	Biochemical Oxygen Demand - 5 Day	MG/L	0,013 1110		
X	X	2	x	i	Cadmium, Dissolved ToTal	UG/L as Cd	0 1 0 2 5	1 (0.101	\Box
x	X	2	(Chloride, Dissoived ToTa!	UG/L as CI	8 2 2 9 5	1/01.0	
X	X	2	(Chromium, Dissolved ToTal	. UG/L as Cr	0 1 0 3 0	(0).05	
i x i	X	1 12	۲		Chromium, Dissolve d, Hexavalent Total	UG/L'as Cr	0 1 2 2 0	101.10.5	
				•	Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1		
					Coliform Group	N/100 ML	7 4 0 5 6		
					Color	Pt · Co	000080		H
x	x	>			Copper, Dissolved ToTal	UG/L as Cu	0 1 0 4 0	<0 . 0 2	Η.
X	X	>			Cyanide, Total	MG/L as CN	0 0 7 2 0	1 1401.1011	
	11				Endrin, Total	UG/L	3 9 3 9 0		
$ _{X} $	$ _{\mathbf{X}}$!				Fluoride, Dissolved ToTal	MG/L as F	0 0 9 5 0	3	
					Gross Alpha, Dissolved	Pc/L	0 1 5 0 3		
					Gross Beta, Dissolved	Pc/L	0 3 5 0 3		
					Hardness, Total as CaCO ₃	MG/L	0 0 9 0 0		7
X	X	x			Iron, Dissolved Total _	UG/L as Fe	0 1 0 4 6	tol. 3 1	
x	X	x			Lead, Dissolved ToTal	UG/L as Pb	0 1 0 4 9	10,005	
					Lindane, Total	UG/L	3 9 7 8 2		
X	X	X			Manganese, Dissolved Total	UG/L	0 1 0 5 6	(01.02	\neg
X	×	>	<		Mercury, Dissolved ToTa!	UG/L	7 1 1 8 9 0	101.1001015	
ALUE COD	INC :	211156					29 - 33		1 2.

ALUE CODING RULES AND EMARK CODES ON REVERSE

* Measured on 6-21-89 by DRAI \$55

- 33 34 - 46 47 - 59 60 - 72 73

OPERARTMENT OF ENVIRONMENTAL PROTE DIVISION OF WATER RESOURCES

'ATER QUALITY MANAGEMENT ELEMENT

min

GROUND WATER ANALYSIS - MONITORING WELL REPORT

ASE TYPE	OR PRINT WITH BALLPOINT	PEN			
HLITY N	Apex Facility			SW ID NO.	
NAME	Cooperative	Ventures, Inc.			
S	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO. 2 4 2 72 1	SAMPLE DATE YR. MO. DAY 8 9 0 6 2 7 17 22	NJ LAB CERT. NO. 7 7 5 0 5 27	WQM USE
HE SCHE	DULE INDICATED BELOW IS		(9) TO 12 8 19 MO. YR.		•

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS			•		¥
Mar. Apr. May June July Aug. Sept. Oct.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	3 9 4 8 6	1	
	Methylene Blue Active Substances	MG/L	3 8 2 6 0		7
x x x	Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N	MG/L as N	0 0 6 0 8	(0.11 U	J.
X	Nitrogen, Nitrate Dissolved	MG/L as N	0 0 6 1 8	21.5	7
	Odor	T.O.N.	010085		7
X X X	рН	Standard Units	0 0 4 0 0	1 7.69	7
	Phenois, Total Recoverable	UG/L	3 2 7 3 0		7
	Radium 226, Dissolved	Pc/L	0 9 5 0 3		1
	Radium 228, Dissolved	Pc/L	8:1:3 6 6		1
x x x	Selenium, Dissolved ToTa!	UG/L	0 1 1 4 5	KD1,005	1
x x x	Silver, Dissolved Total	. UG/L	0 1 0 7 5	<01.102	1
	Sodium, Dissolved	MG/L	0 0 9 3 0		7
	Sulfate, Dissolved (as SO4) ToTal	MG/L	0 0 9 4 6	11/6.0	1
	Total Dissolved Solids (TDS)	РРМ	7 0 3 0 0	1511121.0	1
	Total Organic Carbon (TOC)	РРМ	0 0 6 8 0		1
	Total Organic Halogen (TOX)	UG/L	7 0 3 5 3		1
	Toxaphene	UG/L	3 9 4 0 0		1
	Turbidity	NTU	0 0 0 7 6		1
x x x	Zinc, Dissolved ToTal	UG/L	011090	101.1416	1
.	2, 4-D, Total	UG/L	3 9 3 7 0		1
_ .	2, 4, 5-TP, Total	UG/L	3 9 0 4 5		1
\mathbf{x} \mathbf{x} \mathbf{x}	Phosphate =	MG/L		0.20	1
_ X	Total Xylene	UG/L		1<15! u	1
					1
					1
					1
					1
	-				1
LUE CODING RULES AND			1 29 33 34 42 46 47	40 41 53 54	J
LARK COREC ON DE			55 59 60	66 67	_

SY DEPARTMENT OF ENVIRONMENTAL LACTE DIVISION OF WATER RESOURCES

NATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

EASE TYPE OR PRINT WITH BALLPOINT PEN SW ID NO ACILITY NAME Apex Facility AB NAME Cooperative Ventures, Inc. SAMPLE DATE NJPDES NO. WELL PERMIT NO. NJ LAB CERT. NO. WOM USE YR. | MO. | DAY 8 9 06 27

HE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 819 TO 1 28 19 MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS			•		=======================================
Feb. Mar. Apr. May Juna July Aug. Sept. Oct.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARK
X X	Acrylonitrile	UG/L	3 4 2 1 5	< 50	u
X X	Benzene	UG/L	3 4 0 3 10	5	lu
X X	Bromoform	UG/L	3 2 1 0 4	< 5	Tu.
X X	Carbon Tetrachloride	UG/L	3 2 1 0 2		u
X X	Chlorobenzene	UG/L	3 4 3 0 1		lu
X X	Chlorodibromœthane	UG/L	3 4 3 0 6	1 < 5 1	1
	Chloroform -	UG/L,	3 2 1 0 6	< 5	Q.
K	1. 1 - Dichloroethane	UG/L	3 4 4 9 6		Tu
X X	1, 2 - Dichloroethane	UG/L	3 4 5 3 1	1 25111	u
X X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1		u
	1, 2 - Dichloropropane	UG/L	3 4 5 4 1	< 5	Tu
K K	Ethylbenzene	UG/L	3 4 3 7 1		u
K K	Methylene Chloride	UG/L	3 4 4 2 3	< 15	1
K	1, 1, 2, 2 - Tetrachloroethane	. UG/L	3 4 5 1 6	1<5	넶
	Tetrachioroethylene	UG/L	3 4 4 7 5		
	Toluene	UG/L	3 4 0 1 2	1 (15)	1
	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6	1251	u
K K	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	1 < 5 1	u
K K	Trichloroethylene	. UG/L	3 9 1 8 0	< 5	W
X X	Vinyl Chloride	UG/L	3 9 1 7 5	(111.5	Tu l
K K	Acrolein	UG/L	3 4 2 1 0		ű
X X	Chloroethane	UG/L	3 4 3 1 1	1<511	u
I K I I K I	2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6	1	
T X X	Dichlorobromomethane	UG/L	3 2 1 0 5	1 2 5 1	
K K K	1, 3 - Dichloropropylene	UG/L	3 4 6 9 9	<5	ū
K	Methyl Bromide	UG/L	3 4 4 1 3	1 < 5	
T k k	Methyl Chloride	UG/L	3 4 4 1 8	< 5	H
X	1, 2 - trans - Dichloroethylene	- UG/L	3 4 5 4 6	125	딦
	1, 2 Dichlorobenzene	UG/L	3 4 5 3 6	+	H
	1, 3 Dichlorobenzene	UG/L	3 4 5 6 6	 	H
	1, 4 Dichlorobenzene	UG/L	3 4 5 7 1		H
			29 33 3-	 	1_1

ALUE CODING RULES AND EMARK CODES ON REVERSE FACILITY NAME

WATER QUALITY MANAGEMENT SLEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

SLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NA	AD.	ex Fa	cili	ty		SW ID NO.
LAB NAME				ve Ventures, Inc.	······································]
		NJPDES	NO,	1415 1 6 5 5 1 1 1 1	E DATE 10. DAY	NJ LAB CERT. NO. WOM USE
[R]	N700	99	7 9	1 2 4-2 4 2 72-1 8 9 C	17 2 0	7 7 5 0 5
l l	2			8 9 16 17	22	23. 27
THE SCHE	DULE IND	ICATED	BELO	DW IS TO BE OBSERVED FROM OIL 81 9 TO	1 2 8 9	一人接続等等を提供し
				MO. YR.	MO. YR.	
				SUBMIT WITH SIGNED T-VWX-	-014	196: 2
	LING MOI					HISTORY CONTRACTOR STATES
Jen. Feb. Mar. Apr.	, way July July	Sapt. Oct.	Nov. Dec.	ANALYSIS	UNITS	PARAMETER COMONICA SYCLARS
х	_X	X		Elevation of top of well casing with cap off	feet MSL:	
				(as specified in well completion report) Elevation of original ground level	to nearest .01	
X X	X	X		(as specified in well completion report)	to nearest .01	
x x	x	X		Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8 2 5 4 6
x	$ _{X} $	$ _{X} $		Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9
<	x	X		Arsenic, Dissolved	UG/L as As	01000
ζ! X		X	!	Barium, Dissolved	UG/L as Ba	0 1 0 0 5
	1 ! !	.	İ	Biochemical Oxygen Demand - 5 Day	MG/L	0 0 3 1 0 1 1 1 1
$\langle $	x	x		Cadmium, Dissolved	UG/L as Cd	
$\langle $	X	X		Chloride, Dissolved	UG/L as CI	8 2 2 9 5 1 0 0
$\langle $	x	X		Chromium, Dissolved	UG/L as Cr	
: x	x	x		Chromium, Dissolved, Hexavalent	UG/L'as Cr	╘╃═┊═┊═╬═╬┈╧ ╼ ┩═╬═╬═╬═╬╒ ┪
	111		1 -	Chemical Oxygen Demand (COD), Dissolved	MG/L	00341
				Coliform Group	N/100 ML	7 4 0 5 6
		T		Color	Pt · Co	00080
: x	X	X	Į į	Copper, Dissolved	UG/L as Cu	
	X	x		Cyanide, Total	MG/L as CN	0 0 7 2 0
				Endrin, Total	UG/L	3 9 3 9 0
$ \cdot \cdot _{X} $	l _X	$ _{X} $		Fluoride, Dissolved	MG/L as F	0 0 9 5 0 11 . 1
				Gross Alpha, Dissolved	Pc/L	0 1 5 0 3
				Gross Beta, Dissolved	Pc/L	03503
				Hardness, Total as CaCO ₃	MG/L	0 0 9 0 0
X	X	X		Iron, Dissolved	UG/L as Fe	0 1 0 4 6 < 0 . 0 5
X	X	X	\Box	Lead, Dissolved	UG/L as Pb	0 1 0 4 9 < . 0 0 5
1			T	Lindane, Total	UG/L	3 9 7 8 2
x	X	X		Manganese, Dissolved	UG/L	0 1 0 5 6
	x	X	T	Mercury, Dissolved	UG/L	7 1 8 9 0 1
VALUE CO	DING RI	JI ES A	שט			29 / 33 34 40 43
REMARK				- -	• .	42 46 47 53 54 55 59 60 66 57 68 72 73 79 80

'ATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

EASE TYPE OR PRINT WITH BALLPOINT PEN CILITY NAME SW ID NO. Apex Facility BNAME Cooperative Ventures, SAMPLE DATE NJPDES NO. WELL PERMIT NO. YR. | MO. | DAY NJ LAB CERT. NO. WOM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM

7: VN K 015 8

SUBMIT WITH SIGNED T-VWX-014

SAMPLI							ZXX
Feb. Mar. May	June	Sept. Oct.		UNITS	PARAMETER	VALUE	REMARKS
			Methoxychlor, Total	UG/L	3 9 4 8 0		i
			Methylene Blue Active Substances	MG/L	3 8 2 6 0		11
<u> x </u>	x	x	Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N	MG/L as N	0 0 6 0 8		
x	x	x	Nitrogen, Nitrate, Dissolved	MG/L as N	0 0 6 1 8	2.5	
			Odor	T.O.N.	0 0 0 8 5		—
X	x	X	На	Standard Units	00400		
		!	Phenois, Total Recoverable	UG/L	3 2 7 3 0		+1
<u> </u>		1 1 1	Radium 226, Dissolved	Pc/L	0 9 5 0 3		+-1
		!	Radium 228, Dissolved	Pc/L	8 1 3 6 6		+
_ x	х	x	Selenium, Dissolved	UG/L	0 1 1 4 5		+-
<u> x </u>	x	x	Silver, Dissolved	UG/L	0 1 0 7 5		+
			Sodium, Dissolved	MG/L	0 0 9 3 0		+
<u> x </u>	Х	x	Sulfate, Dissolved (as SO ₄)	MG/L	0 0 9 4 6	116.0	+
k	Х	X	Total Dissolved Solids (TDS)	PPM	7 0 3 0 0		+
			Total Organic Carbon (TOC)	PPM	0 0 6 8 0		+
		<u>i i i i i</u>	Total Organic Halogen (TOX)	UG/L	7 0 3 5 3		+-
			Toxaphene	UG/L	3 9 4 0 0		+1
			Turbidity	NTU	0 0 0 7 6	TITI	+1
_x	k		Zinc, Dissolved	UG/L	01090	<0.01	+-
			2, 4-D, Total	UG/L	3 9 3 7 0		+-
			2, 4, 5-TP, Total	· UG/L	3 9 0 4 5	 	\dagger
x	x	x	Phosphate ' =	MG/L		1111	+
x	11	X	Total Xylene	. UG/L			+-
1 ! ! !	11						\dagger
	.		-				$\dagger \dagger$
	!!!		·				+
							\forall
1 1 1		.			 		H
ALUE COD	ING RU	JLES AND			29 33 34 42 46 47 55 59 60	53	1 1 3 4 1 3 5 4
EMARK CO	DES O	N REVER	E		55 59 60 68 72 73	66 50	5 5 7 5 8 0

NEW 3- LEY DEPARTMENT OF ENVIRONMENTAL PROT- LION DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

MW = 3

GROUND WATER ANALYSIS - MONITORING WELL REPORT

EASE TYPE OR PRINT WITH BALLPOINT PEN

CILITY NA	AME Apex Facility	•		SW ID NO.	
B NAME	Cooperative '	Ventures, Inc.			
a .	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO. 2 4-2 4 2 71-3 9	SAMPLE DATE YR. MO. DAY 8 9 0 6 27	NJ LAB CERT. NO. 7 7 5 0 5	WOM USE
THE SCHE	DULE INDICATED BELOW IS T	O BE OBSERVED FROM ON MO.			

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS					Ĕ
Foli. May. June Junky Aug. Sept. Oct.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARK
	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		340.92	
	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		339.4	
	Depth to water table from top of casing prior to sampling with cap off	feet: to: nearest .01	8 2 5 4 6	34.24	,
	Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9	32.72	
	Arsenic, Dissolved Total	· UG/L as As	0 1 0 0 0	10.008	\sqcap
	Barium, Disselved Total	UG/L as Ba	0 1 0 0 5	<0.2	\Box
	Biochemical Oxygen Demand - 5 Day	MG/L	0 0 3 1 1 0		
	Cadmium, Dissolved ToTal	UG/L as Cd	0 1 0 2 5	(0,01	
	Chloride, Dissoived ToTal	UG/L as CI	8 2 2 9 5	116.0	\exists
X	Chromium, Dissolved ToTal	. UG/L as Cr .	0 1 0 3 0	K01. 151	\exists
	Chromium, Dissolved, Hexavalent Total	UG/L as Cr	0 1 2 2 0	(0, 5	\exists
	Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1		\exists
	Coliform Group	N/100 ML	7 4 0 5 6		\exists
	Color	Pt - Co	00080		┥
x x x	Copper, Dissolved Total	UG/L as Cu	0 1 0 4 0	0.02	╣.
	Cyanide, Total	MG/L as CN	00720		_
	Endrin, Total	UG/L	3 9 3 9 0		\dashv
	Fluoride, Dissolved ToTal	MG/L as F	001950	101.35	7
	Gross Alpha, Dissolved	Pc/L	0 1 5 0 3		\exists
	Gross Beta, Dissolved	Pc/L	0 3 5 0 3		\dashv
	Hardness, Total as CaCO ₃	MG/L	0 0 9 0 0		十
x x x	Iron, Dissolved ToTal -	UG/L as Fe	0 1 0 4 6	1161.191	\dashv
	Lead, Dissolved -ToTal	UG/L as Pb	0 1 0 4 9	<0.005	\dashv
	Lindane, Total	UG/L	3 9 7 8 2		-
X X X	Manganese, Dissolved Total	UG/L	0 1 0 5 6	11.67	\dashv
	Mercury, Dissolved ToTal	UG/L		<101.1010105	\dashv
ALUE CODING PLU EC AND		·	29 33 3		42

ALUE CODING RULES AND EMARK CODES ON REVERSE

* Measured on 6-21-E9 by DRAI

46 47 59 60 72 73 40 41 53 54 66 67 79 80

NEW JER DEPARTMENT OF ENVIRONMENTAL PROTECTION OF WATER RESOURCES ATER QUALITY MANAGEMENT ELEMENT

page j MW 3

GROUND WATER ANALYSIS - MONITORING WELL REPORT

LITYNA	Apex Facility			SW ID NO.	
NAME	Cooperative V	entures, Inc.			
S	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO. 2 4 2 7 / 3 9	SAMPLE DATE - YR. MO. DAY - 8 90 6 2 7	NJ LAB CERT. NO. 7 7 50 5 23 27	WOM USE
SCHE	DULE INDICATED BELOW IS T		<u> 19</u> то <u> 12 8 19</u> УR. то <u> Мо. У</u> R.		

SUBMIT WITH SIGNED T-VWY-014

Apr. May June July Aug. Sept.	N _o c Dec	ANALYSIS	UNITS	PARAMETER	VALUE
		Methoxychlor, Total	UG/L	3 9 4 8 C	
		Methylene Blue Active Substances	MG/L .	3 8 2 6 0	
x		Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	0 0 6 0 8	KO.11
$ \mathbf{x} + \mathbf{x} + \mathbf{x} $		Nitrogen, Nitrate Dissolved	MG/L as N	0 0 6 1 8	21.9
<u> </u>		Odor	T.O.N.	010085	
x		рΗ	Standard Units	0 0 4 0 0	17.1514
		Phenols, Total Recoverable	UG/L	3 2 7 3 0	
		Radium 226, Dissolved	Pc/L	0 9 5 0 3	
		Radium 228, Dissolved	Pc/L	8;1 3 6 6	
x x x		Selenium, Dissolved ToTal	UG/L	0 1 1 4 5	10.005
x x x		Silver, Dissolved ToTal	UG/L	0 1 0 7 5	<01.02
		Sodium, Dissolved	MG/L	0 0 9 3 0	
x x x		Sulfate, Dissolved (as SO4) ToTal	MG/L	0 0 9 4 6	1187.0
x k k		Total Dissolved Solids (TDS)	PPM	7 0 3 0 0	15 7 8 . 0
		Total Organic Carbon (TOC)	РРМ	0 0 6 8 0	
		Total Organic Halogen (TOX)	UG/L	7 0 3 5 3	
		Toxaphene	UG/L	3 9 4 0 0	
		Turbidity	NTU	0 0 0 7 6	
x x k		Zinc, Dissolved ToTal	UG/L	011090	10.1015
		2, 4-D, Total	UG/L	3 9 3 7 0	
		2, 4, 5—TP, Total	· UG/L	3 9 0 4 5	
x x x		Phosphate =	MG/L		0.40
x		Total Xylene	UG/L		< 5 L
!	F				
		-			
		•			

Y DEPARTMENT ÓF EN VIRONMENTAL FROTEC DIVISION OF WATER RESOURCES ! WATER QUALITY MANAGEMENT ELEMENT

100:3

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

ACILITY NAME
Apex Facility

Apex Facility

Apex Facility

NJPDES NO.

WELL PERMIT NO.

SAMPLE DATE
YR. MO. DAY

NJ LAB CERT. NO.

WOM USE

HE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 819 TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS	<u>.</u> .				AI.K
Feb. Mar. Apr. May June July Aug. Sept. Oct.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Acrylonitrile	UG/L	3 4 2 1 5	145011	u
X X	Benzene	UG/L	3 4 0 3 0	1 < 5 1	u
X X	Bromoform	UG/L	3 2 1 0 4		u
X X	Carbon Tetrachloride	UG/L	3 2 1 0 2	1 2 . 2	и
	Chlorobenzene	UG/L	3 4 3 0 1		ii
	Chlorodibromoethane	UG/L	3 4 3 0 6	< 5	u
	Chloroform	UG/L	3 2 1 0 6		u
K K	1. 1 - Dichloroethane	UG/L	3 4 4 9 6		
X	1, 2 - Dichloroethane	UG/L	3 4 5 3 1	1	u
	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	1 < 5 1	u
	1. 2 - Dichloropropane	UG/L	3 4 5 4 1	1	u
	Ethylbenzene	UG/L	3 4 3 7 1	1 < 5 1	u
X X	Methylene Chloride	UG/L	3 4 4 2 3	1 <15	u
K	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 6	< 5	u
	Tetrachloroethylene	UG/L	3 4 4 7 5	< 5	IJ.
	Toluene	UG/L	3 4 0 1 2	1	u
k	1, 1, 1 · Trichloroethane	UG/L	3 4 5 0 6		121
	1, 1, 2 · Trichloroethane	UG/L	3 4 5 1 1	1 < 5 1	ü
K K	Trichloroethylene	UG/L	3 9 1 8 0	< 5 .	u
	Vinyl Chloride	UG/L	3 9 1 7 5		u.
	Acrolein	UG/L	3 4 2 1 0	<50	u
K	Chloroethane	UG/L	3 4 3 1 1	< 5	u
	2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6	< 5	u
	Dichlorobromomethane	UG/L	3 2 1 0 5		u
	1, 3 - Dichloropropylene	UG/L	3 4 6 9 9	1 < 5 1	u
	Methyl Bromide	UG/L	3 4 4 1 3	1 1<15	u
- K K	Methyl Chloride -	UG/L	3 4 4 1 8	1 < 5	u
K - k	1, 2 · trans · Dichloroethylene	- UG/L	3 4 5 4 6		u
	1, 2 Dichlorobenzene	_ UG/L	3 4 5 3 6	1251	u
	1, 3 Dichlorobenzene	UG/L	3 4 5 6 6	1 (5111	u
	1, 4 Dichlorobenzene	UG/L	3 4 5 7 1	1<511	u
			29 33 34	10	7 41

'ALUE CODING RULES AND LEMARK CODES ON REVERSE

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAM	Apex Facility	(SW ID NO.	
AB NAME	Cooperative V	entures, Inc.			
R	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO. 2 4-2 4 2 7/ -3 9 16	SAMPLE DATE YR. MO. DAY 8 9 0 7 2 0	NJ LAB CERT. NO. 7 7 5 0 5 23 27	WQM USE
THE SCHED	ULE INDICATED BELOW IS T	O BE OBSERVED FROM OIL MO.	8 ₁ 9 TO 1 12 8 ₁ 9 MO. YR.		

SUBMIT WITH SIGNED T-VWX-014

				MON					•	* 													пкs
Feb.	Mar. Apr.	May	Jun	V vg	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	P	AR	AN	1ET	ER			V£	ALU	ΙE		1	REMANKS
<	x		χ			x			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01	T						İ	_		Ī	Ī	T	
ζ.	x		Х			Х			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01							İ		j		Ť	+	
ζ.	x		Х	:		X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8	2	5	4	6		İ	1	1	i	1	7	7
	x		X	÷.		Х			Depth to water table from original ground level prior to sampling	feet: to nearest .01	7	2	0	1	9		j	j	1	j	i	\uparrow	1
	Х		X	:		x			Arsenic, Dissolved	UG/L as As	0	1	0	lo	0	H	7	0	_		015	7	7
<u> </u>	X	<u> </u>	X	.		X			Barium, Dissolved	UG/L as Ba	+-	-		 -	15	1	1	- †	ij	<u> </u>	1	+	7
1 !		_	!						Biochemical Oxygen Demand - 5 Day	MG/L	0	0	3	1	io	İ	i	<u>_</u> i		i	i	\dagger	7
	Х	_	X			Х			Cadmium, Dissolved	UG/L as Cd	0	1	io	2	5		i	Ť	T	Ť	十	\dagger	7
	X		X			Х			Chloride, Dissolved	UG/L as CI	8	12	2	9	5		Ì	1	3	1	0	十	7
	X		X			Х			Chromium, Dissolved	UG/L as Cr	_	-	_	3		H	Ť	Ť	Ť	Ť	1	\dagger	7
	X	_	X	11		Х			Chromium, Dissolved, Hexavalent	UG/L as Cr	0	1	2	2	0	T	Ť	i	Ť	Ť	+	\dagger	7
11	_							<u>- </u>	Chemical Oxygen Demand (COD), Dissolved	MG/L	0	0	3	4	1		Ì	Ť	寸	Ť	;	†	7
	11								Coliform Group	N/100 ML	7	4	0	5	6		i	Ť	十	Ť	i	+	7
11		_						_	Color	Pt - Co	+-	-	+	8	<u> </u>		Ť	寸	寸	Ť	+	十	┥.
	X	1	X			х	_		Copper, Dissolved	UG/L as Cu	-	-	-	4		Ħ		Zİ.		1	olz	,	7
	<u> x </u>		X			X			Cyanide, Total	MG/L as CN	1	_	i -	2		H	Ť	Ť	-	$\dot{\top}$		7	7
									Endrin, Total	UG/L	i –	9	÷	9	-	i	Ť	i	1	$\dot{\top}$	i	+	7
11	$ \mathbf{x} $		$ _{\mathbf{x}}$			$_{\rm X}$		\perp	Fluoride, Dissolved	MG/L as F	0	0	9	5	0	Ť	Ť	1	oi.	. 3	3	\dagger	1
	$\perp \downarrow \downarrow$	\perp				\perp	\sqcup	\bot	Gross Alpha, Dissolved	Pc/L	0	_	_	0	,	1	Ť	Ť	1		Ť	Ť	1
1 1		_			_			\perp	Gross Beta, Dissolved	Pc/L	0			0	+	T	Ť	Ť	\top	Ť	+	十	1
									Hardness, Total as CaCO ₃	MG/L	0	_	9	0		Ì	Ť	Ť	寸	+	ij	\dagger	7
	X	ļ.	X			x			Iron, Dissolved	UG/L as Fe	0	1.	0	4	6	i	1		ol.	- 1	0 5	+	\dashv
	x	\perp	X		_	x			Lead, Dissolved	UG/L as Pb	-	_	-	4	9	1	$\overline{}$				25		\dashv
									Lindane, Total	UG/L	-			8		+				1	1	+	7
	X		X]	x	Ī		Manganese, Dissolved	UG/L			`	; ! 5			- 	1	<u> </u>	10	0/2	+	1
1	X		×			ΧĪ	Ī	\int	Mercury, Dissolved	UG/L	-			9	!	-	+	1		1	7	+	1
	.UE C 1ARK								- -		29 42 55 58	- 1			33 46 59 72	47 60				-!	5.5 5.6	0 41 3 5- 6 6 9 80	÷ 7

DIVIDION OF WATER RESOURCES

'ATER QUALITY MANAGEMENT ELEMEN'

GROUND WATER ANALYSIS - MONITORING WELL REPORT

17.02-3

WOM USE

NJ LAB CERT, NO.

_EASE TYPE OR PRINT WITH BALLPOINT PEN ACILITY NAME SWID NO. Apex Facility AB NAME Cooperative Ventures, Inc. SAMPLE DATE

YR. | MO. | DAY

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 18 19 TO 12 8 9 MO. YR.

WELL PERMIT NO.

24 2

NJPDES NO.

NJ009979

S

SUBMIT WITH SIGNED T-VWX-014

Mar.	Apr.	May	eun Til	Alne .	Aug	Sepi	Oct.	No.	Dec.	ANALYSIS	UNITS	F	'AF	RAN	иет	ΓEF	₹		V.£	٩LU	E	
										Methoxychlor, Total	UG/L]3	9) [1 8	3 i (o i	<u> </u>	i	<u> </u>	1	
					1					Methylene Blue Active Substances	MG/L				2 6	-+-	-+-		\dashv		i	
	X		12	xİ_			X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N		$\overline{}$					† †	$\overline{}$	+	i	+
	x		X				x			Nitrogen, Nitrate, Dissolved	MG/L as N		÷	 -	5 1	-		++	$-\frac{1}{1}$	2	, c	- -
_										Odor	T.O.N.) 8			1 1	Ť	\exists	$\dot{\top}$	+
	x		12	x			Х			рН	Standard Units	-+-			C			\vdash	i	+	+	
		!	!			Ī				Phenols, Total Recoverable	UG/L				13			++	+		!	+
	<u>i i</u>	1		İ	Ì	Ĭ				Radium 226, Dissolved	Pc/L	 -		- ;-	0				- i	 -		1
	Ιİ	i	1				İ			Radium 228, Dissolved	Pc/L		 -		6			i i	- 		_	<u>:</u>
	x		1	d			x			Selenium, Dissolved	UG/L	-+			4				\dashv	$\frac{1}{1}$		+
	x	1	X]	χĺ			Silver, Dissolved	UG/L	-+			17			 				+
	! !	1				i				Sodium, Dissolved	MG/L			 -	3					$\frac{\cdot}{1}$	÷	+
	Х		X				x			Sulfate, Dissolved (as SO ₄)	MG/L	_		_	4				5	亣	. 10	,
	k	Ĺ)	į.	1		X			Total Dissolved Solids (TDS)	PPM				10				<u>- '</u>		1	+
į				ļ	Ī	1	T			Total Organic Carbon (TOC)	РРМ	-+-	-	-	8	+			+	-	+-	÷
			Ī	-	Ī	ĺ		Ī		Total Organic Halogen (TOX)	UG/L				5				 -	_ <u>i</u> _	÷	 _
	1				T	!	T	Ī	T	Toxaphene	UG/L		_		0			!	÷	+	1	1
					Ī	Ī	Ī	7		Turbidity	NTU				7			-	<u>.</u>	'	÷	· T
	\mathbf{x}^{\top}		k		T	k		1		Zinc, Dissolved	UG/L		7	_	9	+-			< <	$\frac{1}{2}$	10	1-
					T			1		2, 4-D, Total	UG/L	+-	9			 -			$\stackrel{\sim}{\top}$	+	+	
-										2, 4, 5–TP, Total	UG/L	→			4	+-	-1	\pm	+	+	+	<u>:-</u>
_	\mathbf{x}^{\parallel}		x			\int_{Σ}				Phosphate =	MG/L	1-	 	İ	-	\dagger	-	\perp	+	+	+	
	X					12	Κ			Total Xylene	. UG/L	\vdash	İΤ	<u>-</u>	-	†-			一	+		<u> </u>
			1			İ	-		T	,		\vdash		<u> </u> 	1	1	+-	1	+	$\dot{\top}$	$\dot{+}$	-
		Ĺ		į		ĺ		Ī		-		1	<u> </u>	<u>. </u>	! - 	 	+	÷		+	: i	<u>:</u>
-	į	!	!	!	Ī	Ī	1	-	\top			 	<u> </u>	<u>'</u>	<u> </u> 	! _	1 - 1		<u> </u>			!
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Ī	i	Ī	İ		1.	Ī		Ī				-	 I	;	<u>:</u> 	<u>:</u> T	'		<u> </u>		<u>:</u> 	· !
.UE	E CC	DII	٧G	RI	JI	E	<u>···</u>	ΝΓ		· ·		19 12	<u>'</u>	·	1		3 3 4			_!	<u>!</u>	10
AF	RK (ייי	FS	\cap	VI	B E	. \ :\/E	D (, : =			42 55 68				59	60 2 7 3	`				53 66 79

GROUND WATER ANALYSIS - MONITORING WELL REPORT

2205	TVPE	OP	PRINT	WITH	RALL	POINT	P.F.N
_ ~		• , ,	, , , , , , , , , , , , , , , , , , ,	*** * * * *	~~		

SW ID NO Apex Facility 18 NAME Cooperative Ventures, Inc. SAMPLE DATE NJPDES NO. WELL PERMIT NO. YR. | MO. | DAY NJ LAB CERT. NO. WQM USE NJ 0 0 9 9 7 9 1

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 101 8.9 TO 112 89 MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING					. •			,	N C
Fob. Mar. Apr. May) id 4	26 1.1. Oct.	Ž.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	x	х			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		342.24	
	x	х			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		340.70	
x	X	x			Depth to water table from top of easing prior to sampling with cap off	feet: to nearest .01	8 2 5 4 6	3 3 . 8 7	
	х	х			Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9	32 33	
	X	Х			Arsenic, Dissolved ToTal	UG/L as As	0 1 0 0 0	1 0.014	
x	X	x			Barium, Dissolved ToTal	UG/L as Ba	0 1 0 0 5	< 0 . 0 2	
1 ! ! ! !	į i	1.	1		Biochemical Oxygen Demand - 5 Day	MG/L	0 0 13 11 10		
<u> </u>	x	X	1		Cadmium, Dissolved, TcTal	UG/L as Cd	0 1 0 2 5	1 (01. 01)	\forall
x	\mathbf{x}	x	-		Chloride, Dissolved ToTal	UG/L as CI	8 2 2 9 5	1101.01	\sqcap
X	x	X			Chromium, Dissolved ToTal	. UG/L as Cr	0 1 0 3 0	1 60.05	\forall
x	x 1	X			Chromium, Dissolved, Hexavalent Total	UG/L as Cr	0 1 2 2 0		Н
			-	\cdot	Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1		H
					Coliform Group	N/100 ML	7 4 0 5 6		H
					Color	Pt - Co	00080		Η.
x	x	x	Ī		Copper, Dissolved ToTa!	UG/L as Cu	0 1 0 4 0	0.09	
x	x	X			Cyanide, Total	MG/L as CN	0 0 7 2 0	1 101.1012	H
	!	1			Endrin, Total	UG/L	3 9 3 9 0		H
$ \cdot _{X} \cdot \cdot$	x II	$ _{X} $			Fluoride, Dissolved ToTal	MG/L as F	0 0 9 5 0		H
			T	brack	Gross Alpha, Dissolved	Pc/L	0 1 5 0 3		H
					Gross Beta, Dissolved	Pc/L	0 3 5 0 3		H
		T	T		Hardness, Total as CaCO ₃	MG/L	0 0 9 0 0		1
x z	<	x !	T	1	Iron, Dissolved ToTal	UG/L as Fe	0 1 0 4 6	24.0	H
X	(X			Lead, Dissolved_ ToTal	UG/L as Pb-	0 1 0 4 9	0.05	\forall
		\prod		T	Lindane, Total	UG/L	3 9 7 8 2		H
X X		X	T		Manganese, Dissolved Total	UG/L	0 1 0 5 6	1.22	
x :	x	×		1	Mercury, Dissolved ToTal	UG/L		(101.10101015	
WILLE CODIN							29 33 3		ا_ا ذه

ALUE CODING RULES AND

EMARK CODES ON REVERSE * Measured on 6-21-89 by DRAI

NEW LEASE Y DEPARTMENT OF ENVIRONMENTAL PROTECTION OF WATER/RESOURCES

Page 1

'ATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

.

LUE CODING RULES AND MARK CODES ON REVERSE

Agex Facility

Apex Facility

Cooperative Ventures, Inc.

NJPDES NO. WELL PERMIT NO. YR. MO. DAY NJ LAB CERT. NO. WOM USE

NJO 0 9 9 7 9 1 8 9 16 2 7 7 7 50 5 28 9 17 7 7 50 5 28 17 28

HE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 18 19 TO 12 8 19 MO. YR.

SUBMIT WITH SIGNED T-VWY-014

SAMPLING MONTHS					RKS
Mar. Apr. May June July Aug. Sept. Oct.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	3 9 4 8 C		*.
	Methylene Blue Active Substances	MG/L	3 8 2 6 0		コ
x	Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N	MG/L as N	00608	1 (0.11	u
	Nitrogen, Nitrate, Dissolved	MG/L as N	0 0 6 1 8	11.6	7
	Odor	T.O.N.	010085		7
	На	Standard Units	0 0 4 0 0	17,611	
	Phenois, Total Recoverable	UG/L	3 2 7 3 0		7
	Radium 226, Dissolved	Pc/L	0 9 15 0 3		7
	Radium 228, Dissolved	Pc/L	8.1:3 6 6		\exists
x x x	Selenium, Dissolved Total	UG/L	0 1 1 4 5	10.005	\neg
x x x	Silver, Dissolved Total	. UG/L	0 1 0 7 5	<0.02	7
	Sodium, Dissolved	MG/L	0 0 9 3 0		7
	Sulfate, Dissolved (as SOa') ToTal	MG/L	0 0 9 4 6	481.0	7
x x x	Total Dissolved Solids (TDS)	PPM	7 0 3 0 0	1812141.10	7
	Total Organic Carbon (TOC)	РРМ	0 0 6 8 0		7
	Total Organic Halogen (TOX)	UG/L	7 0 3 5 3		7
	Toxaphene	UG/L	3 9 4 0 0		7
	Turbidity	NTU	0 0 0 7 6		7
x x x	Zinc, Dissolved ToTal	UG/L	011090	10.113	1
	2, 4-D, Total	UG/L ·	3 9 3 7 0		7
	2, 4, 5—TP, Total	UG/L	3 9 0 4 5		7
	Phosphate =	MG/L		11.27	1
	Total Xylene	UG/L		1<15	J
			-		7
					7
					٦
					7
					7
			29 33 3	4 404	1

EY DEPARTMENT OF ENGIR DYMENTAGER ROTE DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

	Apex Facility			!	
AB NAME	Cooperative	Ventures, Inc.			
T NJ 0	NJPDES NO. 0 9 9 7 9 1	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY 8 9 06 2 7 17 22	NJ LAB CERT. NO. 7 7 1 6 6 23 27	WQM USE

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS					ξ
Feb. Mar. Apr. May July Aug. Sept. Oct.	ANALYSIS	UNITS	PARAMETER	VALUE	пеманк
I X I X	Acrylonitrile	UG/L	3 4 2 1 5	< 50	u
	Benzene	UG/L	3 4 10 3 10	< 5	y
	Bromoform	UG/L	3 2 1 0 4		u
	Carbon Tetrachloride	UG/L	3 2 1 0 2		u
X X	Chlorobenzene	UG/L	3 4 3 0 1		u
	Chlorodibromoethane	UG/L	3 4 3 0 6		귰
	Chloroform	UG/L	3 2 1 0 6		u
	1. 1 - Dichloroethane	UG/L	3 4 4 9 6		<u>ਹ</u> ੀ.
X	1, 2 - Dichloroethane	UG/L	3 4 5 3 1		u
X X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	1 < 5	ul.
<u> </u>	1, 2 - Dichloropropane	UG/L	3 4 5 4 1	1 < 5	ų l
X X	Ethylbenzene	UG/L	3 4 3 7 1		u
K K	Methylene Chloride	UG/L	3 4 4 2 3		IJ.
K	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 6		
	Tetrachloroethylene	UG/L	3 4 4 7 5	(5)	ul .
	Toluene	UG/L	3 4 0 1 2	1 <15	นไ
k	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6		ū
K	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	1	u
K	Trichloroethylene	UG/L	3 9:1 8 0	< 5	J
	Vinyl Chloride	UG/L	3 9 1 7 5	< 1 . 5	J
	Acrolein	- UG/L	3 4 2 1 0		J
K	Chloroethane	UG/L	3 4 3 1 1	<15	J .
	2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6		u
K	Dichlorobromomethane	UG/L	3 2 1 0 5		J
	1, 3 - Dichloropropylene	UG/L	3 4 6 9 9		J .
k K	Methyl Bromide	ŪG/L	3 4 4 1 3		<u>, </u>
	Methyl Chloride	UG/L	3 4 4 1 8		7
K - k	1, 2 - trans - Dichloroethylene	- UG/L	3 4 5 4 6	7 7 7 7 7 7 7	J.
<u> </u>	1, 2 Dichlorobenzene	_ UG/L	3 4 5 3 6	1 (15)	ヿ゙
	1, 3 Dichlorobenzene	UG/L	3 4 5 6 6	1 1 2 5 1 1	٦
<u> </u>	1, 4 Dichlorobenzene	UG/L	3 4 5 7 1	1 < 5 1	지
/A11/5 000 NO TO THE TOTAL OF THE PARTY OF T	· - 		29 33 3	4 40.4	1

/ALUE-CODING RULES AND REMARK CODES ON REVERSE

TOSEY DEPARTMENT OF ENVIRONMENTAL PI DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

LEASE TYPE OR PRINT WITH BALLPOINT PEN

ACILITY NA	AME Apex Facility		· · · · · · · · · · · · · · · · · · ·	SW ID NO.	
JAB NAME		Ventures, Inc.			
R	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO. 2 4-2 4 2 70-5 16	SAMPLE DATE YR. MO. DAY 8 9 0 7 2 0	NJ LAB CERT. NO. 7 7 5 0 5 23 27	WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM ON TR. TO 1 12 819 MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS				
Feli. Mar. Apr. June Juny Aug. Sept. Oct.	ANALYSIS	UNITS	PARAMETER	VALUE SHIPPY
	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		
	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		
	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8 2 5 4 6	
	Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9	
: X X X	Arsenic, Dissolved	UG/L as As	0 1 0 0 0	1<101.1010151
x x x x	Barium, Dissolved	UG/L as Ba	0 1 0 0 5	
	Biochemical Oxygen Demand - 5 Day	MG/L	0 0 3 11 10	
	Cadmium, Dissolved	UG/L as Cd	0 1 0 2 5	
	Chloride, Dissolved	· UG/L as CI	8 2 2 9 5	1 8 . 0
	Chromium, Dissolved	UG/L as Cr	0 1 0 3 0	
	Chromium, Dissolved, Hexavalent	UG/L as Cr	0 1 2 2 0	
	Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1	
	Coliform Group	N/100 ML	7 4 0 5 6	
	Color	Pt · Co	00080	
	Copper, Dissolved	UG/L as Cu	0 1 0 4 0	< 01. 0 2
	Cyanide, Total	MG/L as CN	0 0 7 2 0	1111111
	Endrin, Total	UG/L	3 9 3 9 0	
	Fluoride, Dissolved	MG/L as F	0 0 9 5 0	
	Gross Alpha, Dissolved	Pc/L	0 1 5 0 3	
	Gross Beta, Dissolved	Pc/L	0 3 5 0 3	++++++
	Hardness, Total as CaCO ₃	MG/L	0 0 9 0 0	
X X X	Iron, Dissolved	UG/L as Fe	0 1 0 4 6	10.05
	Lead, Dissolved	UG/L as Pb	0 1 0 4 9	<0.005
	Lindane, Total	UG/L	3 9 7 8 2	101,101013
	Manganese, Dissolved	UG/L	0 1 0 5 6	
	Mercury, Dissolved	UG/L	7 1 8 9 0	1 101.1012
VALUE CODING RULES AND			29 33 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ALUE CODING RULES AND REMARK CODES ON REVERSE

'ATER QUALITY MANAGEMENT ELEMENT

Mw-4

GROUND WATER ANALYSIS - MONITORING WELL REPORT

EASE TYPE OR PRINT WITH BALLPOINT PEN ACILITY NAME SW ID NO. Apex Facility AB NAME Cooperative Ventures, SAMPLE DATE WELL PERMIT NO. YR. | MO. | DAY NJ LAB CERT, NO. WOM USE THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 18 19 TO 12 8 9 MO. YR. SUBMIT WITH SIGNED T-VWX-014 REMARKS SAMPLING MONTHS ANALYSIS UNITS II VALUE PARAMETER ' Methoxychlor, Total UG/L 3 9 4 8 6 Methylene Blue Active Substances 3 8 2 6 0 MG/L X X Х Nitrogen, Ammonia, Dissolved NH3 + NH4 as N MG/L as N 0 0 6 0 8 X X X Nitrogen, Nitrate Dissolved MG/L as N 0 0 6 1 8 Odor 0 0 0 0 8 5 T.O.N. 1 X X Х pН Standard Units 0 0 4 0 0 Phenols, Total Recoverable 3 2 7 3 0 UG/L Radium 226, Dissolved Pc/L 0 9 5 0 3 Radium 228, Dissolved Pc/L 8 1 1 3 6 6 X X Selenium, Dissolved UG/L 0 1 1 4 5 X X X Silver, Dissolved UG/L 0 1 0 7 5 Sodium, Dissolved 0 0 9 3 0 MG/L Х Х X Sulfate, Dissolved (as SO₄) MG/L 0 0 9 4 6 35 X X Total Dissolved Solids (TDS) PPM 7 0 3 0 0 Total Organic Carbon (TOC) PPM 0 0 6 8 0 Total Organic Halogen (TOX) UG/L 7 0 3 5 3 Toxaphene UG/L 3 9 4 0 0 Turbidity NTU 0 0 0 7 6 Zinc, Dissolved UG/L 0 1 0 9 0 <10 01 2, 4-D, Total UG/L 3 9 3 7 0 2, 4, 5-TP, Total UG/L 3 9 0 4 Phosphate ' MG/L X X Total Xylene UG/L

ALUE CODING RULES AND EMARK CODES ON REVERSE

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42 55 33 34

46 47

59 60

53 54 66 57

Appendix B

July 1989

NJDEP Ground Water Analysis Forms

VWX - 015A VWX - 015B VWX - 016

For

Apex Facility Monitoring Wells

MW1

MW2

MW3

MW4

Table I

Summary of Ground Water Elevation
Apex Facility - New Village, New Jersey

Monitoring	Wells:	MW1	MW2	MW3	MW4
Total Depth (feet below	n of Well w ground surface)	. 85	60	60	55
Open Hole 1 (feet below	Interval ground surface)	45-85	40-60	50-60	30-55
Elevation of (feet, msl)	of Measuring Point	352.51	341.90	340.92	342.24
Depth to Gr	cound Water from Meas	uring Point			·
_	,				
<u>Date</u> 6/7/89	Time 10:30 - 11:00	41.08	36.46	34.80	Dry
6/8/89	15:00	40.81	36.10	34.41	(Abandoned) 46.80
6/21/89	8:30	40.26	35.82	34.24	Still Recovering 33.87
7/24/89	8:00	40.38	36.35	34.70	34.33
Elevation o	f Ground Water (feet	, msl)			
Date	<u>Time</u>	•			
67/7/89	10:30 - 11:00	311.43;	305.44	306.12	'
6/8/89	15:00	311.70	305.80	306.51	200 27
6/21/89 7/24/89	8:30 8:00	312.25 312.13	306.08 305.55	306.68 306.22	308.37 307.91
,, 27,00	0.00	712.13	505.55	500.22	307.91

Table II

Summary of Total and Dissolved Metals
Apex Facility - New Village, New Jersey

Monitoring Well		MW1	MW2	MW3	MW4
Lab ID No.	6-27-89	529	530	531	532
	7-20-89	729	730	731	732
Parameters (ppm))			· · · · · · · · · · · · · · · · · · ·	
Barium	(Total)	<0.2	<0.2	<0.2	<0.2
Cadmium	(Total)	0.05	<0.01	<0.01	<0.01
	(Dissolved)	<0.01	•		
Chromium	(Total)	<0.05	<0.05	<0.05	<0.05
Copper	(Total)	0.03	<0.02	0.02	0.09
	(Dissolved)	<0.02		<0.02	<0.02
Iron	(Total)	19.8	0.31	16.9	24.0
	(Dissolved)	<0.05	<0.05	<0.05	<0.05
Lead	(Total)	0.03	<0.005	<0.005	0.05
•	(Dissolved)	<0.005	<0.005	<0.005	<0.005
Manganese	(Total)	0.49	<0.02	1.67	1.22
	(Dissolved)	<0.02	<0.02	<0.02	<0.02
Silver	(Total)	<0.02	<0.02	<0.02	<0.02
Zinc	(Total)	0.46	0.11	0.05	0.13
	(Dissolved)	<0.01	<0.01	<0.01	<0.01
Arsenic	(Total)	0.02	<0.005	0.008	0.04
	(Dissolved)	<0.005		<0.005	<0.005
Selenium	(Total)	<0.005	<0.005	<0.005	<0.005
lercury	(Total)	<0.0005	<0.0005	<0.0005	<0.0005

Note: (1) Ground water samples for total metals analysis was collected on June 27, 1989.

(2) Metal analysis for dissolved metals were filtered in the laboratory on July 20, 1989.

Appendix A

Monitoring Well Logs

1			ssociat L Millburn			1.5	W E	LL COMPLE REPORT	TIC	WELL NO. Aur
PROJECT NO.: 76 1575 CONTRACTOR: Sommerville Well PROJECT NAME: V. Caulic LOCATION: Her Village, New Jersey										SHEET NO. / OF 3
DRIVE SAMPLER CORE BARREL							D	MILLING EQUIPMENT & P	ROCEDURES	START IDATES: 5/3/1/37
НАМА	E DIAME	ETER (IN.): GHT (LB.): L (IN.):					Duit	TYPE: Interpretate to MUD: Holandie to PLEA TYPE: Sping	11. Rust Lougher	DRILLER: LC C Gaise) DRAI GEOL: A CRA
DEP (FEE FRO GRAI	T) E	AMPLER BLOWS ER 6 IN.	SAMPLE NUMBER & RECOVERY	STRAT, DEPTH (FEET)	I GR	APHIC OG		VISUAL CLAS	SIFICATION A	ND REMARKS
- 2 - 4 - 6 - 10 - 17 - 16 - 20 - 22 - 24 - 28				10.0			8 5 p	resent No	to Durk to Inders, odor	Proug GRAVEL ashand slag Eill Material - -Fill- Clay 1. t'e ystalline limestone)
30										
			G ROUND Y	VATER L	EVEL	DATA	· · ·			SIIMMARY
		<u> </u>		DEPTH			A GRA	DE TO:		SUMMARY
DATE	TIME	EL ASPEI (HOUR)	D BOTT OF CA	ОМ	ВС	HOL	1	GROUND WATER		EN (LIN FT.) 40 ED (LIN FT.) 45
13.29	1400	7.0	45	-	8	3		39	SAMPLES_	

<u>; </u>					
		Associat		9	WELL COMPLETION WELL NO. MINT
DEPTH (FEET) FROM	SAMPLER BLOWS	SAMPLE NUMBER &	STRATA DEPTH	G RAPHIC LOG	VISUAL CLASSIFICATION AND REMARKS
GRADE	PER 6 IN.	RECOVERY	(FEET)		
- 32-					
			33 C		
- 34 -			,		Light Blue - Gray GRAVEL little silt, weathered imestone
- 36 -		·		,	Will Silly Weathered Imestone
738 -					
- 40 -			40,0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
				1	Limitane Blue-groy, crystalline
- 42 -					Limestone Blue-groy, crystalline and competent Jackson berg Formation
107					
					E" Steel Casing from 0-45"
-44					0-45
- 47					
-50					
-52				,	
-,, }					
- 57/					
-56.					
-57 -					
-60					
-					
·6: +					
.64		.			Duck-RI 21
66					Park-Blue Gray layer Rave weathered surfaces and
					cule te we non
62		-			
7.)					
				i	

		Associat et Millburn,				WELL COMPLETION REPORT	WELL NO. 11 av 1
DEPTH (FEET) FROM GRADE	SAMPLER BLOWS PER 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	GRA	APHIC OG	VISUAL CLASSIFICATION	SHEET NO. 3 OF 3
72 -			·				
74 —					1		·
7					,	· · · · · · · · · · · · · · · · · · ·	
79 -							
22 -						Fractured zone and	mud seam
87						well yield 27-10	gpm
%						Took well a	-1 85'
70 -							
72	· · · · · · · · · · · · · · · · · · ·						
14							
77						√	
23-						-	
7					,		
2							
2 -							



57 East Willow Street, Millburn, New Jersey 07041

COMPUTED BY DATE DATE COMPUTED BY DATE Competent Competent Bedrock at 40 Base of Steel Casin, at 45	COMPUTATION _	Schema	tie Monit	SUBJECT	Diear	an MW1
Competent, Bedrock at 40						
Competent, Bedrock at 40			√	1		
Competent, Bedrock at 40						• •
Competent, Bedrock at 40				e e e e e e e e e e e e e e e e e e e		
Competent, Bedrock at 40		Milling		The state of the s		
Portland Cement Grout. Competent, Bedrock at 40						
Competent, Bedrock at 40				<i>u</i>		
Competent, Bedrock at 40				- 6. Steen	Cosing	
Competent, Bedrock at 40					•	
Competent, Bedrock at 40					·	
				Portland	Cement	Grout
				· · · · · · · · · · · · · · · · · · ·		
					•	
					,	
				$\frac{\partial u}{\partial x} = \frac{\partial u}{\partial x}$,
	~				- (= +	
					Bedroc	k at 40'
- Bose of Steel Casing at 45				. 1		, , ,
- Bose of Steel Casin, at 45		÷		en de la companya de	· ·	
2 - 1303E 09 Steel Casing at 73						1000
		ı		- 150-26 07 37	reer Casi	ing at 75
6" Open Burehole from 45-8				-6" Ocas A	0,-21/2	C 45-0-

Dan Raviv Associates, .nc. WELL COMPLETION WELL NO. Milly 2 57 E. Willow Street Millburn, NJ 07041 REPORT PROJECT NO : 88c576 CONTRACTOR: Symmer ville West SHEET NO. / OF 🤼 PROJECT NAME: Victoria LOCATION: New Village GRADE ELEVATION: __ START IDATES: 6/1/87 DRIVE SAMPLER CORE BARREL DRILLING EQUIPMENT & PROCEDURES FINISH IDATE: 6/1/27 RIG TYPE: Lact Soll From
BIT TYPE: E and 10 Courter

DRILL MUDICATABLE Water Hamed
SAMPLER TYPE: INSIDE DIAMETER (IN.): DRILLEN: Clake Gerich HAMMER WEIGHT (LB.): HAMMER FALL (IN.): DRAIGEOL: L' Cunt DEPTH SAMPLER SAMPLE STRATA GRAPHIC (FEET) **BLOWS** NUMBER & DEPTH VISUAL CLASSIFICATION AND REMARKS FROM LOG PER 6 IN. RECOVERY GRADE (FEET) Dark Brown SILT some Clay lite gravel, cinders, concrete and Slag present Fill Material No 4.0 Light Blown CLAY, 1. Hle gravel trace sund dry, gravel weathered limestone; Clay is slightly misacous - ZO -210 Light Brown CLAY, trace gravel and sand moist - ZY -250 Blue-bray GRAVEL some clay Weathered Crystalline Linestone - 26 -28 30 GROUND WATER LEVEL DATA SUMMARY DEPTH (FEET) FROM GRADE TO: OVERBURDEN (LIN FT.) 35 DATE | TIME | ELASPED BOTTOM BOTTOM GROUND (HOUR) OF CASING OF HOLE WATER ROCK CORED (LIN FT.) 25 0/19 6,5 SAMPLES _____ 40 1200 60 3.4

Dạn :	Raviv A	Associat	es,	c.		WELL COMPLETIC	WELL NO. 77142
57 E. V	·	et Millburn,	NJ 070	41		REPORT	SHEET NO. ZOF Z
DEPTH (FEET) FROM GRADE	SAMPLER BLOWS PER 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	1	APHIC .OG	VISUAL CLASSIFICATION	
32 3 3 4 4 4 4 4 4 5 5 7 5 7 5 7 5 7 5 7 5 7 5		RECOVERY	35.0			Blunk - Burk Blue GK dry Westernod Limestone, Blue Gree Gray Crystalline, Drill Time 30sey - O-40' 6" Steel Cas O-40' Portland Central	competent Tackson berg Formations ing ment Growth
							



57 East Willow Street, Millburn, New Jersey 07041

Page ____/ 01__/

COMPUTATION Schemutic COMPUTED BY AL DAT	SUBJECT Mon toring Well Drang. TE6/13/87 CHECKED BY	Mells Com MWZ DATE
OMPUTED BY AL DAT	Monitoring Well Diag. TE6/13/87 CHECKED BY	DATE
DMPUTED BYDAT	TE <i>6/13/87</i> CHECKED BY	DATE
	\equiv	
	Command Cement Steel Base of Steel 6" Open Borehold	apatent Bedrongs

l'ho	- Do		10000101						
•			Associat et Millburn.	•	1	WE	LL COMPLET REPORT	LION	WELL NO. A WALL
PRO	JECT	NO.: <	700576 : 2/c/w/		CONT		OR: Sommero ION: Dr. 11. m. New J.	wye,	SHEET NO. / OF
			DRIVE SAME	LER COR	E BARREL	DR	ILLING EQUIPMENT & PI		START IDATE: 6/189
НАММ	E DIAME	TER (IN.): IHT (EB.): (IN.):				BITT	YPE: Ingersoll YPE: 40 12 Days MUD: 6 2/ K LER TYPE:	hode Hinne	DRAI GEOL: 6/7/79 DRAI GEOL: 6/2/6/
DEPT (FEE FRO GRAI	T) B	MPLER LOWS R 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	GRAPHIC LOG		VISUAL CLAS	SIFICATION A	ND REMARKS
- Z - 4.			·	4,2	11/.	ئر 7- 	Muteria	ders, m.	AY, moist etal present -Fill-
- 6 - 6						L	1501 Brow	n CL	AY cohesive
- 10 - 12									
- 14				150					
- 18 - 18						51.	A Brown and silt; classify damp	CLAP,	track sand is hty micaeous
- 20					· · /		: :		,
- ZZ - Z4									·
-26									
-28 -30									
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Dan Raviv Associates, ...c. WELL COMPLETIC .. WELL NO. PARTS 57 E. Willow Street Millburn, NJ 07041 REPORT SHEET NO. COF L SAMPLER SAMPLE GRAPHIC BLOWS NUMBER & FROM VISUAL CLASSIFICATION AND REMARKS LOG PER 6 IN. GRADE RECOVERY (FEET) ~ :2 Licht Brown CLAR France graves Careatrered Imestone 47 -Drill Time 20sect 460 Blue-Gray Limestone, Crys'alline. Competent Jacksonberg Formation 0-50' 6" Steel Casing 0-50' Portland Cement Grout 5 3 3 Mud Scam und Frantiza Zone Well Held ~ 30gpm TD of well at 50'

57 East Willow Street, Millburn, New Jersey 07041

Page _______oi___/ Job No. <u>886576</u>

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Dan	*Ra	viv A	ssociat	es, .n	c. I	WF	LL COMPLET	TOUL	V/511 NO
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57 East Willow Street, Millburn, New Jersey 07041

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FARER SIEGAL FERSKO

(908) 789-8550

FAX (908) 789-8660

RECEIVED

OCT 21 1991

Dept. Environmental Protection Division of Water Resources Bureau of Ground Water Discharge Control HENRY FARER MARTIN F. SIEGAL JACK FERSKO DAVID B. FARER STEPHEN L. RITZ RICHARD J. ERICSSON

ANN M. WAECER
HEIDI S. MINUSKIN
REBECCA C. CRONEBERCER
DANIELE CERVINO
JAY A. JAFFE
BETH D. POLLACK
ANDREW W. KRANTZ
LAWRENCE F. JACOBS
JOHN P. QUIRKE

October 16, 1991

Via Federal Express

Arnold Schiffman, Assistant Director Groundwater Quality Management Element Division of Publicly Funded Site Remediation New Jersey Department of Environmental Protection and Energy CN 029 Trenton, New Jersey 08625-0029

Re: Request for Adjudicatory Hearing

Major Modification of NJPDES Permit No.: NJ0099791

Permittee: Victaulic Company of America

Premises: Apex Galvanizing Facility

Edison Road, Franklin Township

Warren County, New Jersey

Lot 1.01 Block 27

Our file no.: 850401

Dear Mr. Schiffman:

We are environmental counsel for Victaulic Company of America ("Victaulic"), the referenced NJPDES permittee. Victaulic is located at 4901 Kesslerville Road in Easton, Pennsylvania.

Request for Hearing

In line with the requirements of the referenced NJPDES Permit ("Permit"), we are writing to request an adjudicatory hearing to reconsider and contest the conditions of the Permit. This request follows the procedures outlined in N.J.A.C. 7:14A-8.9.

We received the Major Modification of NJPDES/Discharge to Groundwater Permit No. NJ0099791 on September 20, 1991. The major modification has an issuance date of September 1, 1991 and an effective date of October 1, 1991.

This request for an adjudicatory hearing is to contest the following Permit conditions:

1. The issuance of the Permit in Compliance Monitoring status; and

FARER SIEGAL FERSKO
A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW

Arnold Schiffman, Assistant Director October 16, 1991 Page 2

2. The failure of the New Jersey Department of Environmental Protection and Energy ("DEPE") to address off-site sources of discharges to the regulated unit affecting groundwater quality at Victaulic's premises.

Both these conditions were contested during the public comment period in accordance with the provisions of N.J.A.C. 7:14A-8.4.

Basis for Request

As set forth in Victaulic's comments to the draft major modification submitted to DEPE on June 6, 1991, Victaulic, in comment number nine, contested the issuance of the Permit in Compliance Monitoring status rather than Detection Monitoring.

DEPE's response to comment nine is conclusory and fails to address the concerns raised in comment nine. Victaulic maintains that the sampling data, obtained pursuant to the permit, does not indicate that Victaulic's regulated unit is the source of the "possibility of contamination" which has already been detected. The placement of the monitoring wells is such that their purpose is not merely to monitor groundwater quality but also to trace the source of any contamination detected.

As is also set forth in Victaulic's comments, Victaulic, in comment ten, contests DEPE's failure to address the past and present discharges to the "regulated unit" not under the control of Victaulic which contribute to the "possibility of contamination."

DEPE's response to comment ten merely states that the permittee is responsible to ascertain background groundwater quality and that the monitored chemical parameters are not likely to be effected by the additional sources. Victaulic maintains that since its discharge terminated over three years ago that the monitoring of groundwater quality does not serve to monitor the effect of Victaulic's prior discharge to the regulated unit but rather monitors the effect on groundwater of these other contributory sources not under the control of Victaulic.

Proposed Revisions to the Permit

The Permit should be modified to address the concerns noted in comments nine and ten. We propose the following revisions to the Permit:

FARER SIECAL FERSKO A PROFESSIONAL ASSOCIATION ATTORNEYS AT LAW

Arnold Schiffman, Assistant Director October 16, 1991 Page 3

- 1. The Permit should be issued in Detection Monitoring status.
- 2. The Permit should include a provision that Victaulic should not be responsible for contamination attributed to sources other than its own former discharge.

We estimate that the hearing to address the concerns outlined above would require approximately two days. Victaulic remains willing to negotiate a settlement with DEPE prior to processing of the hearing request to the Office of Administrative Law.

In line with the requirements of the Permit, here is a completed Administrative Hearing Request and Tracking Form for Permits.

Victaulic reserves the right to raise any and all issues necessary for just adjudication of this matter.

If you have any questions concerning this request for an adjudicatory hearing, please contact us immediately by telephone so that we may provide you with a swift response.

Richard J. Ericsson

LFJ:cer Enclosure

cc: Victaulic Company of America

Franklin Industrial Park

Michael Infanger

Richard J. McManus, Director, Office of Legal Affairs

Administrative Hearing Request Checklist and Tracking Form for Permits

Major Modification of NJPDES Per	mit No. NJ0099791 Discharge to Groundwater
cle and Type of Permit	
September 1, 1991	NJ0099791
suance Date of Permit	Permit Number
Person Requesting Hearing:	
taulic Company of America	Richard J. Ericsson, Esq.
ne	Name of Attorney (if applicable)
. Box 31	Farer Siegal Fersko
ton, Pennsylvania 18402	600 South Avenue, Westfield, New Jersey
lress	Address of Attorney
B. A list of all permit co C. The legal and factual q D. A statement as to whether legal and factual issue E. Suggested revised or al F. An estimate of the time	her or not the permittee raised each during the public comment period; ternative permit conditions; required for the hearing;
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Richard J. Ericsson

FARER SIEGAL FERSKO

A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW
600 SOUTH AVENUE
P.O. BOX 580
WESTFIELD, NEW JERSEY 07091

(908) 789-8550

FAX (908) 789-8660



DEPT. ENVIRON. PROTECTION
Division Water Resources
WQM - Administration

June 6, 1991

<u>Via Telecopier and Federal Express</u>

Arnold Schiffman, Assistant Director Ground Water Quality Management Element Division of Water Resources New Jersey Department of Environmental Protection 401 East State Street, 3rd Floor East Trenton, New Jersey 08608

Re: Draft Major Modification

NJPDES Permit No. NJ0099791 Victaulic Company of America Apex Galvanizing Facility Premises: Edison Road

Franklin Township

Warren County, New Jersey

Our file no. 850401

Dear Mr. Schiffman:

We are environmental counsel for Victaulic Company of America ("Victaulic").

We are writing to provide comments to you regarding the referenced draft major modification of Victaulic's NJPDES Permit ("permit modification") for its Apex Galvanizing facility, issued by the New Jersey Department of Environmental Protection ("DEP") on April 22, 1991. We have been advised by Michael Infanger of your office that, pursuant to a request by co-permittee Franklin Industrial Park, the public comment period for this permit modification has been extended until June 10, 1991.

These comments include a summary of discussions held on May 15, 1991 with Michael Infanger and Stephen Urbanik of DEP and our subsequent May 24, 1991 conference call with Michael Infanger, during which an agreement was reached on revisions to the ground-water investigation requirements set forth in the draft major modification of the permit.

HENRY FARER
MARTIN F. SIECAL
JACK FERSKO
DAVID B. FARER
STEPHEN L. RITZ
RICHARD J. ERICSSON

ANN M. WAECER
HEIDI S. MINUSKIN
REBECCA C. CRONEBERGER
DANIELE CERVINO
JAY A. JAFFE
BETH D. POLLACK
ANDREW W. KRANTZ
LAWRENCE F. JACOBS

Arnold Schiffman, Assistant Director Ground Water Quality Management Element Division of Water Resources New Jersey Department of Environmental Protection June 6, 1991

Here are Victaulic's comments on the permit modification:

Groundwater Investigation

- 1. As set forth in the prior discussions, Victaulic proposes an alternative groundwater investigation scheme replacing the requirements set forth in Part III, Paragraphs 1 and 2 of the permit modification as follows:
 - (a) The permit modification will be revised to require the installation of one groundwater monitoring well to the north of and adjacent to the tunnel. This well will serve as a downgradient monitoring well to determine the effect of prior discharges to the tunnel on groundwater. This well will be specifically located in the vicinity of the tunnel soil sampling point VIC 3 (as identified in the September, 1990 soil investigation report prepared by Eastern Remedial Environmental Services, Inc.). Subsequent to its installation, this well will be sampled along with Victaulic's production wells.
 - (b) An additional groundwater monitoring well downgradient of the tunnel will only be required if analysis of samples from the well referred to above show cadmium to be at a level of three times the groundwater standard of .01 parts per million ("ppm").
- 2. The requirement and time frames for the commencement of the portion of the groundwater investigation related to levels of cadmium found in MW-1, as set forth in Part III, Paragraph 1 of the permit modification will be revised to require the installation of additional monitoring wells necessary to "delineate the plume" within approximately 60 days of the agreement between DEP and Victaulic on the details of a groundwater investigation proposal. This will allow for the best use of the information developed during the initial phase of the groundwater investigation, as well as allow for DEP's participation in the placement of additional groundwater monitoring wells.

Arnold Schiffman, Assistant Director Ground Water Quality Management Element Division of Water Resources New Jersey Department of Environmental Protection June 6, 1991

- 3. The requirement for sampling any of the monitoring wells for volatile organic compounds will be deleted from Part III, Paragraph 11 of the permit modification, since Victaulic did not use volatile organic compounds in its process in a manner which could have had a substantial effect on its discharge.
- 4. The requirement for further sampling of existing monitoring wells MW-3 and MW-4 set forth in Part III, Paragraph 11 of the permit modification will be deleted, as several years of quarterly sampling of those wells has shown no contaminants above those levels found acceptable to DEP.
- 5. The requirement for the submission of a Tier II quality assurance/quality control data package along with results of analysis of samples as set forth in Part III, Paragraph 5 and Part III, Paragraph 11 Note B of the permit modification will be deleted since the Tier II QA/QC reports essentially only relate to analysis of samples for volatile organic compounds.
- 6. The requirement for notification to the Assistant Director of any excursions from the groundwater standards as set forth in Part III, Paragraph 9 of the permit modification will be revised to relate only to such excursions identified in new groundwater monitoring wells not previously required by the present permit.
- 7. The requirement set forth in Part III, Paragraph 11 of the permit modification for the analysis of samples from the groundwater monitoring wells for manganese, sulfates and total dissolved solids will be revised to apply only to the sampling of any new monitoring well installed pursuant to the permit modification.

Enforcement of Groundwater Standards

8. The permit modification at Part III, Paragraphs 8 through 11 refers to the groundwater protection standards set forth at Part III, Paragraph 11. During our discussions with Michael Infanger, he indicated that groundwater monitoring sample results that exhibit levels of parameters exceeding the

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A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW

Arnold Schiffman, Assistant Director Ground Water Quality Management Element Division of Water Resources New Jersey Department of Environmental Protection June 6, 1991

permit's groundwater protection standards would not place the permittees in violation of the permit, result in DEP taking any enforcement action against the permittees nor result in the assessment of penalties against the permittees. In his comments Mr. Infanger added that such sample results may only lead to further investigation of the source or extent of the contamination identified.

The permit modification does not expressly incorporate Mr. Infanger's comments. Since the permit modification is being issued for past discharges and other discharges beyond Victaulic's control, the permit modification should expressly state that any sample results that exhibit levels of parameters that exceed groundwater protection standards could only result in a requirement for further investigation as to the source or extent of contamination identified, and that DEP will not hold the permittees to be in violation of the permit, commence any enforcement action against the permittees or assess any penalties against the permittees.

Compliance v. Detection Monitoring

9. The April 22, 1991 correspondence of Mary Ann Kuserk, Acting Chief of the Bureau of Groundwater Discharge Control, issued with the permit modification states that the permit modification is being issued in compliance monitoring status. The monitoring presently being conducted pursuant to the requirements of the existing permit issued on February 25, 1988 is detection monitoring. This was confirmed by the October 11, 1990 correspondence to us from Dawn M. Strano of the Division of Water Resources.

Our position is that the monitoring to be conducted pursuant to the permit modification continues to be detection monitoring. Detection monitoring is defined in the Water Pollution Control Act Regulations at N.J.A.C. 7:14A-1.8 (d) as monitoring performed to determine whether or not current or past discharges have resulted in an impact on the environment. This is consistent with the nature of the monitoring presently being conducted pursuant to the existing permit.

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ATTORNEYS AT LAW

Arnold Schiffman, Assistant Director Ground Water Quality Management Element Division of Water Resources New Jersey Department of Environmental Protection June 6, 1991

DEP addressed this issue in response to a comment received during the public comment period for the NJPDES fee regulations in the April 2, 1991 issue of The New Jersey Register (22 N.J.R. 1127), which states:

Dectection Monitoring . . . is designated to determine if the regulated active discharge to groundwater or past discharge activity has impacted groundwater quality. The permittee who does not have an active regulated groundwater discharge and is simply monitoring its site to detect the possibility of contamination is considered to be in detection monitoring.

MW-1 was installed pursuant to the requirements of the existing permit as an upgradient well. Based upon the piezometric surface elevation and groundwater flow direction map set forth in the August 8, 1989 report of well installation prepared on behalf of Victaulic by Dan Raviv Associates, Inc., MW-1 is 400 feet in an upgradient direction from the beginning of the tunnel or "regulated unit" that accepted Victaulic's past discharge. This well is also almost 2000 feet in an upgradient direction from the ultimate discharge point of the "regulated unit", that is, the basement of the concrete ruins located to the west/southwest of Victaulic's facility. There is no evidence based upon what is known about groundwater flow that any of the elevated levels of cadmium observed in MW-1 are related to Victaulic's past discharge to the "regulated unit". This is confirmed by the lack of any excursions from the cadmium permit limitations in any of the wells that are specifically downgradient of the "regulated unit", including MW-2.

In our discussions with Michael Infanger, he pointed to N.J.A.C. 7:14A-6.15(b) as the support for DEP's determination that monitoring under the permit modification should be compliance monitoring. That regulation, at 6.15(b)1i states that compliance monitoring is required when "hazardous constituents... from a regulated unit... are detected..." No technical evidence from the existing monitoring wells supports

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ATTORNEYS AT LAW

Arnold Schiffman, Assistant Director Ground Water Quality Management Element Division of Water Resources New Jersey Department of Environmental Protection June 6, 1991

a supposition that the elevated levels of cadmium in MW-1 are related to Victaulic's "regulated unit". Any such supposition is entirely inconsistent with the clear definition in the regulation of detection monitoring, as well as DEP's position that additional monitoring should be conducted, because it remains unclear as to whether Victaulic's prior discharge to its "regulated unit" has had any effect on groundwater in the area.

Discharges Not Controlled by Victaulic

10. The tunnel complex, which accepted the prior discharge of Victaulic's Apex Facility, also serves as the drainage point for the industrial discharges of several other industrial establishments located in the vicinity of the Apex Facility, notably Franklin Steel Company and Henkles & McCoy, Inc. Some of these industrial discharges originate from the storage yards and heavy equipment parking areas of these industrial establishments and may include a variety of contaminants.

In addition to the industrial discharges described above, storm water runoff from County Route 633 (Edison Road) and the Conrail railroad tracks and abandoned railroad station has for decades been discharged into the tunnel. Along with improvements made several years ago by the Warren County Road Department, new storm drains were installed along County Route 633, which collect storm water runoff from Route 633 and from the Conrail railroad tracks and abandoned railroad station, which discharge directly into the tunnel immediately downgradient from the Apex Facility. This county drainage system, including its connection to the tunnel, is identified and described on Sheet 5 of 19 of the Warren County Road Department Map entitled "Map of Improvements to County Route 633", which was provided to DEP as part of Victaulic's comments to the original permit in February, 1988.

In addition to the industrial discharges and county drainage system discharge described above, several other tunnels connected to surrounding buildings, which are part of the original tunnel complex direct storm water runoff from several

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A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW

Arnold Schiffman, Assistant Director Ground Water Quality Management Element Division of Water Resources New Jersey Department of Environmental Protection June 6, 1991

abandoned industrial establishments directly into the tunnel, both upgradient and downgradient of the Apex Facility. The tunnel complex also serves as a central drainage point for approximately 50 acres of fields surrounding the Apex Facility which are used for agricultural purposes.

The effect of all of the past and present discharges to the tunnel, which is considered Victaulic's "regulated unit", obfuscate the effect Victaulic's prior discharge may have had on the environment, and make it difficult, if not impossible, to clearly relate any specific condition observed in the groundwater to Victaulic's prior discharge. The permit modification does not provide a mechanism for addressing these concerns so as not to charge the permittees with responsibility for the environmental effects of past or present discharges that it could not or can not control.

Please contact us prior to the issuance of the final permit modification if you have any questions concerning these comments.

Richard J. Ericsson

RJE:bam

cc: Victaulic Company of America

Currel of Erwoon



WT0099791

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF WATER RESOURCES**

NORTHERN BUREAU OF REGIONAL ENFORCEMENT

1259 Route 46, Building 2 Parsippany, New Jersey 07054

(201) 299-7592 Fax # (201) 299-7719

JUN 6- 1991

CERTIFIED MAIL RETURN RECEIPT REQUESTED

David S. Bugby Vice President of Manufacturing Victaulic Company of America P.O. Box 31 4901 Kesserville Road Easton, Pennsylvania 18042

Dear Mr. Bugby:

Compliance Evaluation Inspection Re:

Victaulic Company of America - Apex Facility

NJPDES No.: NJ0099791 DGW-I/P Lag.-Ind.

Munic/County: Franklin Township, Warren County

A Compliance Evaluation Inspection of your facility was conducted by a representative of this Division on April 24, 1991. A copy of the completed inspection report form is enclosed for your information.

Your facility received a rating of "CONDITIONALLY ACCEPTABLE" due to the following deficiencies:

The following parameter failed to achieve Permit limitations for 1. Discharge Sample IO1 listed in the Table on page 1 of 10, Part III-DGW-I of your New Jersey Pollutant Discharge Elimination System (NJPDES) Permit:

<u>Parameter</u>	Discharge	Reported	Reporting
	<u>Limit</u>	<u>Data</u>	<u>Period</u>
Fluoride	4.0 mg/l	7.1 mg/l	October 1990

The following parameters failed to achieve the standards for 2. monitoring wells listed in Table 1 on page 7 and 8 in Part III-DGW of your NJPDES Permit:



Please be advised that the information cited in this Directive reflects the conditions of NJPDES-DGW Permit No. NJ00997991 issued on March 1, 1988. The conditions of this Permit are in effect and are fully enforceable during the public notice period for the draft major modification and until a final Permit is issued by the Department.

Both the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 466 et seq.) provide for substantial penalties in cases of Permit violations.

Please direct all correspondence and inquiries to the writer, who can be reached at (201) 299-7592 or by letter through this Division.

Very truly yours,

Mitchell Reicher
Environmental Specialist
Ground Water and Safe Drinking
Water Enforcement
Northern Bureau of Regional
Enforcement

MR:dc

Enclosure

c: Chief Joseph M. Mikulka, Northern Bureau of Regional Enforcement Robert Plumb, Section Chief, Northern Bureau of Regional Enforcement

Patrick Durack, USEPA - Region II
Chief, Permits Administration Branch, USEPA - Region II
Michael Infanger, Bureau of Ground Water Discharge Control
Ron Eroh, Victaulic Co.
Bruce Host, Victaulic Co.
Cindy DeAngelo, Warren County Health Department

bc: Mitch Reicher

Bureau File THRU M. Reicher Central File/NJPDES: NJ0099791

Enforcement Actions (Virginia Kennedy) DGW - I/P Lag.



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES CN 029, Trenton, N.J. 08625

DISCHARGE SURVEILLANCE REPORT

PERMIT # NJ 0099791 NO. OF DISCHARGES DEW CLASS I/P Lagran
DISCHARGER Victaulic Company of America
OWNER Victaulic Co. (Facility Owner) and Franklin Industrial Park Guar
MUNICIPALITY Franklis Tounship COUNTY Watershed Code D
LOCATION New Village, Edison Road - Apet Facility
RECEIVING WATERS Ground Water STREAM CLASS W.4
LICENSED OPERATOR & PLANT CLASS
TRAINEE/ASSISTANT OTHER INFO(201) 859-0085
(Apex Facility)
DEFICIENCIES OR COMMENTS 1) Discharge Io1 exceeded permit limitations for
Fluoride during 10/90 period. 2) Numerous exceedances of parameters
in MW's 1 thru 4. 3.) Stormwater lagoon was musty, turbid
and had excessive floating solids. Height to freeboard was below
minimum acceptable levels.
Victaulic properly notified Department of pamit exceedences, therefore
no response for items one (1) through two (2) is required.
OVERALL RATING Acceptable Conditionally Acceptable Unacceptable
EVALUATOR Mitch Reicher TITLE Environmental Specialist
INFORMATION FURNISHED BY (Name) Ron Eroh / Bruce Host
(Title) Plant Mgr. / Environ. Mgr. (Organization) Victaulic Co.

DATE OF INSPECTION April 24, 1991

RESET DEPARTMENT OF ENVIRONMENTAL PRODUVISION OF WATER RESOURCES CN 029, Trenton, N.J. 08625

TON

Page 2 of 4 (G)

Permit # _NJ 00 9979/ Date April 24, 1991

DISCHARGE SURVEILLANCE REPORT

		· · · · · · · · · · · · · · · · · · ·	Date <u>171711 24, 1711</u>
D 4 2			ATER DISCHARGE EVALUATION
KA'	FING CODES: $S = Satisfactory M = M$		U = Unsatisfactory NA = Not Applicable
	TANDE DON'T	RATIN	
	TYPE DGW		Infiltration / Perculation Layoun
	RCRA FACILITY	N.A	داء المحادث ال
L	DISCHARGE NUMBER		IOI (Stormwater layoun) IOI (wasternater Turnel)
GENERAL	WASTEWATER SOURCE/FREQ.		Sturn + Rince Water / Intermittent
Z	PUMPS AND PIPING	5	
S	ALTERNATE POWER/ALARM	NA	
	BYPASS	NA	
	-		
	WARRE CITED III		
_	WATER SUPPLY/MONITORING	5	Prad. well for indust. use only due to high nitrates
Ē	AQUIFERS MONITORED	5	undifferentiated kittatinny Group of Cambro-Ordovician
SI	UPGRADIENT WELLS	_ ک	MW1
SΥ	DOWNGRADIENT WELLS	5.	MW 2, 3 + 4
Š	SAMPLING PLAN	<u>S</u>	
2	SAMPLING PROCEDURES	NI	by lab personnel
2	LAB CERTIFICATION	3	Rocperative Ventures, Eastern PA # 72505
MONITORING SYSTEM	RECORDS	5	Maintained on-site
Q	REPORTING		IOL - bi unavally: MW's - Quarterly
-			,
		+	
LLS	DRILLING PERMIT NUMBERS	15	mw 1 24-24273-0; Mws, 24-24272-1; Mws
Ę,	WELLS NUMBERED/IDENTIFIED		24-24271-3 MW4 24-24270-5
ĭ¤	LOCKS/INTEGRITY	ک	
38	ABANDONMENT PLAN	15	
FORED WEI	ELEVATION INFORMATION	- 3	
2E		15.	
MONITORED	TURBIDITY FREE	NI	
×	SUFFICIENT YIELD	5	
	CI ACCIDICATION	NA	
	CLASSIFICATION PROPERTY	1074	
٠, ا	PERC./LEACHING PROBLEMS	 - -	
OIC	SOLVENTS/REPAIRS MADE	+	
-	MAX, PRESSURE & VOLUME	+-	
ł	CLOSEST USDW/SUPPLY WELLS	+	
_	MOUND INTEGRITY/COVER	 \	
Z	LINING INTEGRITY	NA	Unlined
IMPOUNDMENT	EMBANKMENT INTEGRITY	1 5	
	LEACHATE COLLECTION SYS.	NA	
5	SOLIDS BUILDUP/REMOVAL	<u> </u>	Floating Solids
2	HEIGHT TO FREEBOARD	u	Within 2tt.
∑	APPEARANCE	u	Mustry + Turkid with floating solids
		1.2	
١ ج	EVEN DISTRIBUTION	NA	·
اج	PONDING/RUNOFF/EROSION	 - - 	
回	SPRAY HEADS	 	
S	DISCING		
S	COVER CROP	 - - - - - - - - -	
AY SYSTEM	APPEARANCE	 	
SPRA	BUFFER ZONE		
S. S.	SLUDGE STOCKPILED	V	
i			
<u>بر</u> [SEEPAGE/LEACHING	5	none-notice
-	ODOD (4 PD 040-4	5	
OTHER F	ODOR/AEROSOLS	NA	None-Noticed



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES CN 029, Trenton, N.J. 08625

Page 3 of 4

Permit # NJ0099791

DISCHARGE SURVEILLANCE REPORT

Date _April 24, 1991

PLANT DIAGRAM AND FLOW SEQUENCE: NOT TO SCALE					
•		lcop	ecty Line	-	
	•				•
Franklin Industrial Park			/		
		1			
		1			
		/	•	•	<u>.</u>
Abandoned Ruin W/		1 .		Victorlic Apux Fac.	\$ * ,
Basement Lagoon	/		Storm Orai (Phs. Lot)		&
	, .		(PK3. LOT/		MW1
Proposed Mu 6	/ '			operations Building	
MW2 Proposed Mu6	/			Ioa	To1_
MWd nis		•		(ceased)	(1111)+
	Tur	<u>vel</u> 5	ystem	التسا	
				[دور	ŧ
mw3				Store W	nter Ranoff Lagou
/		•			
Ø					,
mw4					
,					
DISCHA	RGE D	ATA		A A	
SOURCE: Industrial Fac. Wastellater Reports PERIOD	: <u>7/</u>	90-9	190, 10	190-12/90, 1/91-3/9	91
DIS PARA SAMPLE PERMIT LIMITS DATA	-T'	PARA	SAMPLE TYPE	PERMIT LIMITS	
	+-		TIFE		l DATA
	4	i			DATA
IOI Sampling NOT Required	1				DATA
IO1 Sampling NOT Required					DATA
The second secon					DATA
The second secon					DATA
IOI Fl Grab 4.0 mg/l 7.1 mg/l					DATA
The second secon					DATA
IOI Fl Grab 4.0 mg/l 7.1 mg/l					DATA
TOI FI Grab 4.0 mg/l 7.1 mg/l					DATA



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES CN 029, Trenton, NJ. 08625

Page 4 of 4

Permit # WJ0099791

Date April 24, 199

DISCHARGE SURVEILLANCE REPORT

SOURCE: Ground Water Reports

PERIOD: 7/90-9/90, 10/90-12/90, 1/91-3/91

			DATA All in parts per million (ppm					
PARA	SAMPLE TYPE	PERMIT LIMITS	MW 1	MWa	MW3	MW4		
CAOMIUM Nitrate-	Grab	0.01 ppM	0.045					
Nitrogen		10.0 PPM	27.25	14.9	11.4			
T05		500 ppm	660	520	584	772		
MANGANESE		0.05 pm	,	0.18	0.06		<u> </u>	
SULFATE		250 ppm	ļ	·		301		
	4: 1							
CAPHIUM	1	0.01 PPM	0.05					
CHROMIUM Nitrate-		D. 05 PP/7	0.07	0.07	0.11	0.07		
Witrogen		10.0 PPM	31.08					
TOS		500 ppm	639-	525		530		
MANGANESE	<u> </u>	0.05 PPM			0-13	0.07		
	,	· · · · · · · · · · · · · · · · · · ·	<u> </u>					
CAPMEUM Vitrate-	Grab	0.01 ppm	0.04	`				
Vitropen		10.0 ppm	20.37					
TOS		500 ppm	614			611		
SULFATE		250 ppm				325		
	••							
	-		·					
			·			•		
		······································						

Above data are parameters which did not achieve ground water standards for the noted Monitorins Periods.

NJPDES DGW PERMIT NOTIFICATION GUIDELINE BHEET

*Any time that a facility fails to achieve ground water quality standards and/or other permit limitations, the permittee is required, pursuant to N.J.A.C. 7:14A-2.5(a)14 and the permit, to provide oral and written notification addressing these items to the Department within specified time frames from the time the permittee becomes aware of the circumstance.

The Ground Water Exceedance Notification Report is to contain the following information:

- *A) A description of the discharge;
- *B) The steps being taken to determine the cause of the noncompliance;

NOTE: This shall include the steps being taken to confirm the validity of the data, and the basis used to determine whether the exceedance is due to the discharge or is due to background or off-site conditions;

- *C) The steps being taken to reduce and eliminate the noncomplying discharge;
- *D) The period of noncompliance, including the exact dates and times. If the noncompliance has not been corrected, the anticipated time when the discharge will be in compliance;
- *E) The cause of the noncompliance;
- *F) The steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance; and
 - G) Indicate whether the discharge has impacted or threatens to impact ground water off-site, including identification of all surface water and ground water supplies (wells) in the immediate (i.e. one-half mile radius) vicinity.

THE REPORT SHALL BE SUBMITTED TO THE GROUND WATER PERMITTING BUREAU SPECIFIED BELOW:

(609)	292-0424
(609)	633-1241
	633-3869
(609)	292-8427
(609)	292-4860
(201)	299-759Z
	(609) (609) (609)

CN 029 Trenton, NJ 08625

Upon receipt of the information requested above, a determination will be made for the need of a ground water quality assessment program pursuant to N.J.A.C. 7:14A-6.1. FAILURE TO PROVIDE THIS INFORMATION MAY RESULT IN ENFORCEMENT ACTION INCLUDING THE ISSUANCE OF PENALTIES!

FARER SIEGAL FERSKO

A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW
600 SOUTH AVENUE
P.O. BOX 580
WESTFIELD, NEW JERSEY 07091

(908) 789-8550

FAX (908) 789-8660

May 22, 1991

HENRY FARER MARTIN F. SIECAL JACK FERSKO DAVID B. FARER STEPHEN L. RITZ RICHARD J. ERICSSON

ANN M. WAEGER HEIDI S. MINUSKIN REBECCA C. CRONEBERGER

DANIELE CERVINO

JAY A JAFFE

BETH D. POLLACK

1991 ANDREW W. KRANTZ

LAWRENCE F. JACOBS

Dept. Environmental Protection Objection of Mater Accounties Surgay of Groung Water Accounties Water Discharge Control

Via Telecopier and Federal Express

Michael Infanger, Geologist
Bureau of Ground Water Discharge Control
Division of Water Resources
New Jersey Department of Environmental Protection
CN-029
Trenton, New Jersey 08625

Re: Proposed Revisions to Groundwater Investigation

Victaulic Company of America Apex Galvanizing Facility NJPDES Permit No. NJ0099791 Our file no. 850401

Dear Michael:

In line with our discussions, here are the alternative proposals prepared by Eastern Remedial Environmental Services, Inc. ("ERES") for the groundwater investigation at the Apex Galvanizing Facility ("Apex") premises. These proposals are based upon our discussions at the May 15, 1991 meeting on this issue, and are being provided to you to serve as a basis for further discussion prior to the close of the public comment period on the draft permit modification.

Here are some additional comments which were also discussed at our meeting.

1. Since it has yet to be determined whether or not current or past discharges at the facility have resulted in an impact on the environment, the groundwater monitoring required by the permit is detection monitoring as defined at N.J.A.C. 7:14A-1.8(d), and not compliance monitoring as is set forth in the draft permit modification.

We therefore request that the draft permit modification be revised to correctly identify the monitoring as detection monitoring.

Michael Infanger, Geologist
Bureau of Ground Water Discharge Control
Division of Water Resources
New Jersey Department of Environmental Protection
May 22, 1991
-2-

- 2. Since past monitoring of the existing monitor wells has shown that sulfates, total dissolved solids and manganese are not at levels that are of concern to DEP, we propose that those parameters be dropped completely from the draft permit modification.
- 3. We discussed that since Victaulic has been undertaking monitoring at the premises for the past two years, the requirements set forth in page three of Part III, paragraph 9 for notification of the Assistant Director of any exceedance of a parameter for the first time in a given well be deleted from the draft permit modification.
- 4. We discussed that the time limits for installation of the monitor wells to be used for determining the extent of the cadmium contamination be revised to account for the phased approach to the groundwater investigation and the accumulation and review of data from the initial sampling activities.

We have also enclosed the supply well volatile organic sampling data from 1984 which shows the levels of volatile organics in the water supply. This information is discussed in the ERES proposal.

As we discussed, we are anxious to complete these discussions prior to the close of the public comment period next week. We therefore are hopeful that we will be able to discuss these issues during the conference call scheduled for Friday, May 24, 1991. We will contact you tomorrow to set up a time for that call.

Thank you very much for your consideration in this matter.

Best regards,

Richard J. Ericsson

RJE:bam Enclosure

cc: Victaulic Company of America

Eastern Remedial Environmental Services, Inc.



EASTERN REMEDIAL ENVIRONMENTAL SERVICES, INC.

1150 NEWTON STREET NORTH BRUNSWICK, NEW JERSEY 08902 (908) 247-6333 FAX: (908) 247-0625

May 22, 1991

Mr. Richard J. Ericsson Farer, Siegal and Fersko 600 South Avenue PO Box 580 Westfield, NJ 07091

RE: Victaulic Company of America
Apex Galvanizing Facility
Comments to the Proposed Major Modifications to
NJPDES NJ0099791

Dear Mr. Ericsson:

Enclosed please find a summation of proposals discussed in our meeting with Mr. Michael Infanger of the NJDEP - Bureau of Ground Water Discharge Control.

- -Based on our discussions at the 5/15/91 meeting with NJDEP, it appears from previous ground water elevations collected that the ground water within the bedrock zone is moving in a north-northwest direction. It is on this basis that NJDEP indicates that an investigation of essentially two (2) areas is required:
- 1. An investigation to define the groundwater conditions on the downgradient side of the underground trench system. Previously, three (3) monitoring wells were placed along the trench: MW-2, MW-3 and MW-4. Of these wells, the permit modification states that MW-2 appears to be the only downgradient monitoring well. NJDEP is asking for two (2) additional wells on the apparent downgradient side of the trench.
- 2. An investigation to identify the nature and extent of the Cadmium contamination found in elevated levels in MW-1.
- -As result of our meeting, the following proposal incorporates the concept of a phased approach to the permit's requirements for conducting a ground water investigation. ERES proposes that the investigation of the trench area be pursued initially, followed by an investigation of the second area at MW-1. A phased approach would allow for gathering information on the trench first

Mr. Richard J. Ericsson
Victaulic Company of America
Apex Galvanizing Facility
Comments to the Proposed Major Modifications to
NJPDES NJ0099791
May 22, 1991
Page 2

which could impact the location and installation of wells for the cadmium investigation. Further, this systematic approach would allow the unfolding of specific information to be used in subsequent phases, which would maximize the gathering of useful information during the project.

The phased approach is as follows:

Install one (1) well on the downgradient side of the trench at a location which would correspond approximately to and be immediately downgradient of the highest Cadmium concentrations identified by previous sampling of the trench soils. It would be expected that impacts to ground water would be greatest at this location. The location of this new well would serve to surround the ultimate discharge point, which as decribed by the permit, as the basement of the concrete ruins.

The placement of wells as described would provide two (2) wells downgradient of the trench, which based upon the phased nature of the investigation, ERES feels is adequate. At some point in the future if it becomes necessary to install additional wells, these would be the result of information collected initially and would be proposed after this first phase.

Additional points based on our review of the permit and our discussion include the following:

-NJDEP indicates that proposed wells MW-5 and MW-6 will require sampling for volatile organics plus fifteen. At the meeting it was discussed that Victaulic did not utilize volatile organic compounds ("VOCs") or materials containing VOCs. Therefore, Victaulic could not have introduced VOCs into its wastewater discharge. Since Victaulic will provide information showing that its onsite production well has historically shown the presence of VOCs, indicating an offsite source of these pollutants, ERES proposes that the

Mr. Richard J. Ericsson
Victaulic Company of America
Apex Galvanizing Facility
Comments to the Proposed Major Modifications to
NJPDES NJ0099791
May 22, 1991
Page 3

requirement for sampling for VOCs be removed from the proposed modification package.

-As was discussed at the meeting, ERES proposes that no further sampling of MW-3 or MW-4 is necessary. Quarterly sampling of MW-3 and MW-4 for the past two (2) years has not shown the presence of contaminants which would require further monitoring. This is consistent with the draft permit modification proposal that if after two rounds of sampling concentrations of parameters do not exceed permit standards, then monitoring may be discontinued. ERES recommends that the wells be utilized for ground water level measurements only and that at the completion of the required monitoring or investigation they should be properly sealed.

ERES is anxious to participate in the telephone conversation to discuss these comments prior to the close of the comment period.

Best regards,

Julian Antebi

President

c: Bruce Host, Victaulic

Form DEP-016 9/83

JERSEY DEPARTMENT OF ENVIRONMENTAL ECTION BUREAU OF ENVIRONMENTAL LABORATORIES 380 SCOTCH ROAD, TRENTON, N.J. 08628

	REQUEST FOR ANALYSIS	15 H2 1 3 3 0
		LOCATION CODE
SAMPLING LOCATION	Municipality Frankli	Turoll
Site Victaul	ic Co. Edisin Rd	70 10575
FIELD SAMPLE NO. SAM	MPLE TYPE	COLLECTION DATE MILITARY TIM
B00641	Water - W	Year Month Day 1120
RESPONSIBLE AGENCY	Northern Region	ACCOUNT NO.
	ENFORMENTAL	 ⁻
PERSON AUTHORIZED TO REC	QUEST ANALYSIS TITLE	PRESERVED Chain of Custody Implement
Lisabel M. 7	Boho St. Env Engr	☐Yes ☐ No
SEND RESULTS TO:		PHONE NO.
	sabel M. Fo-hi	2.4420
NAME & ADDRESS OF UNIT	DWR- Engercoom ant	
	1470 Page 2000	
REMARKS	- 13 8 M - D1	
	New Well	
	70.00 50011	
\		
<u> </u>		
		LAB USE ONLY
•		PRICE LIST
1 Organica	A. Halogenated and Aromatic Volatiles	T A
I. Organics	B. Volatiles	
•	☐ C. Trihalomethanes	□ c
·	D. Pesticides/PCB's	
•	☐ E. PCB's	<u> </u>
	☐ F. Base-Neutral/Acid Extractables	
,	☐ G. Pesticides, Drinking Water☐ H. Herbicides, Drinking Water	(hours)
	Ti, Tierbiology, Drinking Water	
II. Inorganics	☐ A. Metals, Drinking Water ☐ Primary	☐ Secondary
	B. Metals Priority Pollutant	•
•	☐ C. Metals Scan → Clayed to AFP mas Ai D. Metals, Water Pollution, specify:	5 Ta . 1/2 7-6-84
•	D. Metals, Water Pollution, specify:	<u> </u>
III. Limited Chemistry	☐ A. Total Cyanide	
	☐ B. Total Phenol	:
•	C. Sulfate	•
•	☐ D. Nitrate	
IV. RCRA	☐ A. EP Toxicity ☐ Metals ☐ Pesticio	des Herbicides
· · · · · · · · · · · · · · · · · · ·	B. Ignitibility	762 C. LICI DIGIGES
	☐ C. Corrosivity ☐ pH ☐ Coupo	n
1		
V. Other (Specify)		
•		

Form	PEP-015
9/83	

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENVIRONMENTAL LABORATORIES 380 SCOTCH ROAD, TRENTON, N.J. 08628

LA	B USE ON	<u>LY</u>
LAR	CONTROL	NO

3001

CHAIN OF CUSTODY RECORD

Use one form for each sample,

Containers Containers Con 3 40m/ Oc.	PERSON ASSUMING OF tainers	DESPONSIBILITY FOR S DESC DESC A 15 SECOND	CRIPTION OF SAMPLE 200 GOE 11
RELINQUISHED BY	RECEIVED BY	DATE TIME	REASON FOR CHANGE OF CUSYODY
	2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	1/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3	

COPIES:

Gold - Bottle Receipt

Pink Sample Receipt
Yellow - Analysts Chain of Custody
White Sample Custodians Chain of Custody

Form DEP 022 A 4/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENVIRONMENTAL LABORATORIES

QUANTITATIVE RESULTS & QUALITY ASSURANCE DATA

LAB CONTROL #	SAMPLE TYPE UM (PF -U) FIELD SAMPLE # (BOCGI)	REPORT DATE
SECTION SUPERVISOR	LAB. SUPERVISOR	MATRIX SPIKE LC# 2702

HALOGENATED	SAMPL	E DATA			ITY CONTROL	DATA	TOLV COLVE	
AND AROMATIC VOLATILES			┦ ├	LAB, DUPLICATE		MATRIX SPIKE		
PARAMETER	SAMPLE CONCEN. µg/l	MDL ² μg/l	METHOD BLANK μg/l	μg/l	% DIFF.	CONCEN. ADDED μg/I	RECOVER	
Bromodichloromethane	4: 1	0.36	71.	ND	NA	<u> </u>	,	
Bromoform		1.10				18.5	79	
Bromomethane		1.30					ļ ·	
Carbon tetrachloride		0.29				10.0	123	
Chlorobenzene		0.73		·		<u> </u>		
Chloroethane		0.59						
2-Chloroethylvinyl ether		1.20						
Chloroform		0.20				48.4	102	
Chloromethane		0.62						
Dibromochloromethane		0.66				20.0	72	
1,2-Dichlorobenzene		0.50			ļ		ļ	
1,3-Dichlorobenzene		0.56					<u> </u>	
1,4-Dichlorobenzene		0.51					<u> </u>	
Dichlorodifluoromethane		1.30			<u> </u>		<u> </u>	
1,1-Dichloroethane		0.38				9.6	108	
1,2-Dichloroethane		0.35			,		<u> </u>	
1,1-Dichloroethene		0.81						
trans-1,2-Dichloroethene		0.36				<u>'</u>		
1,2-Dichloropropane		0.44					<u> </u>	
cis-1,3-Dichloropropene		0.35						
trans-1,3-Dichloropropene		0.44						
Methylene chloride		0.29		\downarrow	1 1			

20 1	SAMPLE	ΠΔΤΔ	QUALITY CONTROL DATA			DATA		
c# <u>3201</u>				LAB, DU	PLICATE	MATRIX SPIKE		
PARAMETER	SAMPLE CONCEN. μg/l	MDL ² μg/i	METHOD BLANK μg/l	μg/l	% DIFF.	CONCEN. ADDED μg/I	% RECOVERY	
1,1,2,2-Tetrachloroethane	rid	0.52	"; , <u>, (</u>	ND	NH			
Tetrachloroethene	<u> </u>	0.85						
1,1,1-Trichloroethane	3.93	0.53				9.7	1283	
1,1,2-Trichloroethane	٠, ١	0.35						
Trichloroethene	9.48	0.34						
Trichlorofluoromethane	7 (0.33	ŀ					
Vinyl chloride		1.30					Z	
Benzene		0.64				19.3	108	
Ethylbenzene		1.40		V		<u> </u>		
Toluene	2111	0.88		9,69	2.6	20.3	84	

¹ Methods Reference: EPA 600/4-82-057, EMSL Cincinnati, OH, 45268, July 82: PTS SOP 7.1.2-.3

COMPOUNDS	II-GC SURRO CONCENTRATION ADDED TO SAMPLE MATRIX			LS LIMITS	044445450
	μg/ι	2 HECOVERT	LOWER	UPPER	QUALIFIED*
Bromochloromethane	20.0	103	59	103	-
2-Bromo-1-Chloropropane	20.0	45	53	108	
1-4-Dichlorobutane	20.0	97	だい	140	
a,a,a-Trifluorotolunene	23.5	18	5o	142.	

^{&#}x27; IF DATA IS QUALIFIED SEE COMMENTS BELOW:

² BEL Established Method Detection Limits.

FARER SIEGAL FERSKO

A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW
600 SOUTH AVENUE
P.O. BOX 580
WESTFIELD, NEW JERSEY 07091

(908) 789-8550

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RECEIVED

HENRY FARER

MARTIN F. SIEGAL

JÂCK FERSKO

DAVID B. FARER

STEPHEN L. RITZ

RICHARD J. ERICSSON

ANN M. WAECER
HEIDI S. MINUSKIN
REBECCA C. CRONEBERGER
DANIELE CERVINO
JAY A. JAFFE
BETH D. POLLACK
ANDREW W. KRANTZ
LAWRENCE F. JACOBS

April 18, 1991

Via Telecopier and Regular Mail

Michael Infanger, Geologist
Bureau of Ground Water Discharge Control
Ground Water Quality Management Element
Division of Water Resources
New Jersey Department of Environmental Protection
CN-029
Trenton, New Jersey 08625

Re: Draft Permit Modification

Victaulic Company of America Apex Galvanizing Facility Premises: Edison Road

es: Edison Road

Franklin Township

Warren County, New Jersey

NJPDES Permit No. NJ0099791

Our file no. 850401

Dear Michael:

We are writing to inquire into the status of the draft major modification of the referenced permit which we have discussed.

Because of the on-going nature of the groundwater investigation at the premises, we are hopeful that you will be able provide us with a copy of the draft major modification prior to its official issuance in draft so that we may have some informal discussions concerning the major modification's requirements.

Please contact us so that we may be able to discuss the status of the major modification.

Thank you for your consideration.

Richard J. Ericsson

RJE:bam

cc: Victaulic Company of America



CF-0"

Ju 12 1 35 1111

Certified Mail No. P409-674-440 Return Receipt Requested

July 10, 1991

Mr. Robert Plumb, Section Chief
New Jersey Department of
Environmental Protection
Division of Water Resources
Northern Bureau of Regional Enforcement
1259 Route 46, Building 2
Parsippany, NJ 07054

Victaulic Company of America
Apex Facility, New Village, Warren County
NJPDES Permit No. NJ0099791
Response to Compliance Evaluation Inspection

Dear Mr. Plumb:

A compliance evaluation inspection of the Apex facility was conducted on April 24, 1991, by a representative of the Division of Water Resoures. Enclosed is a written report, which addresses the lone deficiency noted in the Compliance Evaluation Inspection letter received by Victaulic on June 11, 1991.

Item 4 of the Compliance Evaluation Letter

The height to freeboard of the retention pond's waters was found to be below the minimum acceptable level of two feet during the April 24 inspection. The inspection was preceded by heavy rains both the morning of and the day prior to finding the unsatisfactory height to freeboard.

Victaulic has subsequently performed maintenance on the drainage system within the retention pond and will monitor the level of water in the pond after upcoming storm events to ensure it is draining properly.

Mr. Robert Plumb Division of Water Resources

If I can be of further assistance with regards to this matter, feel free to contact me at 215-559-3476.

Very truly yours,

Bruce W. Host, Jr. Environmental Engineer

BWH/jms

Enclosure

cc: D. S. Bugby

D. R. Brown

R. G. Eroh - Apex

R. J. Ericsson - Farer Siegal Fersko

USEPA

Permits Administration Branch 26 Federal Plaza New York, NY 10278

CF-04

RECEIVED BY NJ 009979!

FARER SIEGAL FERSKO

A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW
600 SOUTH AVENUE
P.O. BOX 580
WESTFIELD, NEW JERSEY 07091

(201) 789-8550 FAX (201) 789-8660

September 28, 1990

Sep 31 S is AT SO

ENVIRONDE AND ENVIRONDE LA PROPERTIE DE LA PRO

MARTIN F. SIECAL
JACK FERSKO
DAVID B. FARER
STEPHEN L. RITZ
RICHARD J. ERICSSON

ANN M. WAEGER
HEIDI S. MINUSKIN
REBECCA C. CRONEBERGER
DANIELE CERVINO
BARBARA J. KOONZ
JAY A. JAFFE
BETH D. POLLACK

Via Telecopier and Federal Express

Robert Plumb, Section Chief
New Jersey Department of Environmental Protection
Division of Water Resources
Northern Bureau of Regional Enforcement
1259 Route 46, Building 2
Parsippany, New Jersey 070504

Re: Response to Compliance Evaluation Inspection

Permittee: Victaulic Company of America

Premises: Apex Facility
Edison Road

New Village, New Jersey

Warren County

NJPDES Permit No. NJ0099791

Our file no. 850401

Dear Mr. Plumb:

A compliance evaluation inspection of the Victaulic Company of America Apex Facility ("Victaulic") was conducted on July 26, 1990 by a representative of the Division of Water Resources ("DWR"). We have enclosed a written report prepared by the Permittee which addresses the alleged deficiencies noted in the Compliance Evaluation Inspection Report dated August 22, 1990.

Although the Permittee is providing the information requested, it is Victaulic's contention that DWR improperly concluded that the Permittee's actions were deficient as set forth in items 2 and 3 of the Compliance Evaluation Inspection Report.

As to Item 2 of the Compliance Evaluation Letter dated August 22, 1990

Item 2 states: "Parameters which did not achieve the standards must be reported to the Department in accordance with the General Conditions, Part III of your NJPDES Permit and the NJPDES regulations, N.J.A.C. 7:14A-2.5(a)14.vi."

FARER SIECAL FERSKO
A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW

Robert Plumb, Section Chief
New Jersey Department of Environmental Protection
Division of Water Resources
Northern Bureau of Regional Enforcement
September 28, 1990
-2-

Part III item 8 of the NJPDES Permit provides that when the concentration of a contaminant in a sample exceeds the permit standard, the Permittee must comply with the requirements of N.J.A.C. 7:14A-6.15(j). Pursuant to subsections (j)8 and 9, if any hazardous constituent exceeds the permit standards, the operator shall determine whether there is a statistically significant increase, and if there is such an increase, report it to DWR.

As set forth in the enclosed Groundwater Exceedance Notification Report, there has either been no pattern of increases of any hazardous constituent over time, no increase of hazardous constituents in what might be considered Victaulic's compliance point or no increase of any parameter that may be related to the nature of Victaulic's past discharge. Additionally, Victaulic has no evidence to indicate that any of the exceedances endanger health or the environment.

As to Item 3 of the Compliance Evaluation Letter dated August 22, 1990

The permit clearly states that the Permittee is to sample for total volatile organics and xylene during the sampling months of April and October only. The permit also states that the Permittee shall report the results of such sampling in February, May, August and November. It is clear that the reporting requirements are a misprint in the permit. Obviously, if Victaulic is only required to sample in April and October, Victaulic will only be able to report the results of analysis of those samples in May and November. There is no data to report during the February and August reporting periods.

Therefore, the Permittee is not in violation of item 3 of the August 22, 1990 letter.

Victaulic requests that DWR upgrade the rating set forth in the August 22, 1990 Compliance Evaluation and Inspection Report to acceptable.

Due to the specific nature of the relation of Victaulic's permit to its activities at the premises, including the lack of a clear relationship between the permitted levels set forth in the permit and the nature of Victaulic's past discharge, as well as the apparent inapplicability of the regulations to this matter, we are

FARER SIEGAL FERSKO A PROFESSIONAL ASSOCIATION ATTORNEYS AT LAW

Robert Plumb, Section Chief
New Jersey Department of Environmental Protection
Division of Water Resources
Northern Bureau of Regional Enforcement
September 28, 1990
-3-

anxious to discuss this matter in more detail with you, and will make ourselves available for a meeting if necessary.

Thank you for your consideration in this matter.

Richard J. Ericsson

RJE:bam

cc: Victaulic Company of America

NJDEP Bureau of Groundwater Discharge Control

Mr. Mitchell Reicher



September 20, 1990

State of New Jersey
Department of Environmental Protection
Division of Water Resources
Bureau of Ground Water Discharge Control
CN-029
Trenton, NJ 08625

Victaulic Company of America

Apex Facility - Franklin Township, Warren County
NJPDES DGW Permit No. NJ0099791

Response to Compliance Evaluation Inspection

Dear Sirs:

Victaulic Company of America's Apex facility, located in Franklin Township, Warren County, New Jersey, recently had its annual compliance evaluation inspection with regards to its NJPDES Discharge to Ground Water (DGW) permit. In a letter dated August 22, 1990, the facility received a rating of "unacceptable" due to a number of deficiencies found at the plant. Victaulic submits the following material to correct those deficiencies and to upgrade the rating to one of "acceptable".

To address items one and two of the referenced letter, a ground water exceedance notification report is enclosed, which highlights all parameters that failed to achieve permit standards for all the monitoring wells during the five sampling events which have taken place to this date. For future well sampling events, the ground water exceedance notification report shall be included, when necessary, as part of the cover letter submitted with our Discharge Monitoring Reports. This will than meet the requirements set forth in the General Conditions, Part III of our NJPDES DGW permit.

In response to item three, with regards to the sampling and reporting of xylene and volatile organic compounds, these compounds were not due to be reported or sampled during the January sampling period of 1/90 to 3/90. These parameters were sampled for and reported the quarter before and after this time period as required in our DGW permit. A copy of Part III of our DGW permit is enclosed, which shows the ground water monitoring requirements for our four monitoring wells. For xylene and volatile organic compounds, we are required to sample for these parameters in April and October and then report the results in February, May, August and November. We feel that this is a misprint in our permit and that the reporting months should read May and November. Victaulic will continue to sample for these parameters in April and October and report them in May and November only, as we have done in the past.

If further information is needed to address and correct these deficiencies found in the compliance evaluation inspection, please feel free to contact me at 215-252-6400, Ext. 3476.

Very truly yours,

Bruce W. Host, Jr.
Environmental Engineer

BWH/jms

Enclosures

cc: D. S. Bugby

D. R. Brown

R. G. Eroh

Mr. Mitchell Reicher
State of New Jersey
Department of Environmental Protection
Division of Water Resources
Northern Bureau of Regional Enforcement
1259 Route 46, Building 2
Parsippany, NJ 07054

Victaulic Company of America Apex Facility - Franklin Township, Warren County NJPDES DGW Permit No. NJ0099791 Ground Water Exceedance Notification Report

The following is the Ground Water Exceedance Notification Report prepared by Victaulic Company of America for its Apex facility, with regard to its NJPDES Discharge to Ground Water (DGW) permit. This report is being submitted as required by the findings of the annual compliance evaluation inspection found in the letter received from the NJDEP dated August 22, 1990.

Victaulic's wastewater discharge was discontinued as of April 1988, prior to the issuance of our DGW permit. Therefore, many of the requirements of the Ground Water Exceedance Notification Report do not appear here due to the discontinuing of this wastewater discharge. The attached table, Table I, highlights all parameters that have failed to meet permit standards for monitoring wells one through four for the five sampling events which have taken place to this date. A short narrative is included below which discusses these exceedances and any trends that have developed.

The total dissolved solids exceedances have been present in all of the wells since the first sampling event on June 27, 1989. Since the exceedance occurs in the upgradient or background well, well #1, as well as the downgradient wells, we feel that this is inherent to the groundwater in this area.

The cadmium results from Table I only appear in our background well and not in any of our downgradient wells, and therefore, could not be caused by our past discharge. We shall continue to monitor the Cd results of well #1 to see if any trends develop, but as of now, the results do not show any increasing trends.

There are a number of other parameters that exceeded their permitted values. These are sulfate, manganese, ammonia and selenium. These have all occurred in our downgradient wells 2, 3 and 4. It is felt that these results are influenced by many factors beyond our control, which could cause them to rise above the permit values and then fall below during the next sampling event. Since there is no evidence of an increasing pattern to any of these results for the listed parameters, we shall continue to pay close attention during the upcoming quarters to look for any developing trends. We will report our findings to the NJDEP in our future DMR submissions.

The nitrate situation, which appears in three of our wells in the last sampling event on July 10, 1990, we feel is caused by ISE Farm's chicken farm, which is located approximately 1/2 mile upgradient of our facility. We have found that other wells in the area have experienced this same problem, including our own production well, which has forced the Apex facility to use bottled water. This parameter will continue to be monitored in the future with all exceedances reported in our quarterly DMR.

TABLE I

Victaulic Company of America - Apex Facility NJPDES DGW PERMIT EXCEEDANCES

Sampling	Monitoring		Result
Date	<u>Well</u>	Parameter	(ppm)
06/27/89	1	Cd	0.05
00/2//09	1	TDS	571
	2	TDS	512
	2 3	TDS	578
	4	Sulfate	355
	•	TDS	824
10/10/89	1	Cd	0.04
10/10/09		TDS	642
	2	TDS	550
	3	Mn	140
	.	TDS	530
	4	TDS	697
	₹	125	0,77
01/19/90	1	Cd	0.04
,,		TDS	579
	2	TDS	559
	3	TDS	572
	4	NH3-N	1.0
		Se	12.6
		TDS	721
04/10/90	1	Cd	0.05
, ,		TDS	591
	3	TDS	587
	4	TDS	709
07/10/90	1	Cd	0.045
.,,		Nitrate	27.25
		TDS	660
	2	Mn	180
		Nitrate	14.9
		TDS	520
	3	Mn	60
		Nitrate	11.4
		TDS	584
	4	Sulfate	301
		TDS	772

FARER SIEGAL FERSKO

A PROFESSIONAL ASSOCIATION ATTORNEYS AT LAW **600 SOUTH AVENUE** P.O. BOX 580 WESTFIELD, NEW JERSEY 07091

(201) 789-8550

FAX (201) 789-8660 August 28, 1990

HENRY FARER MARTIN F. SIECAL JACK FERSKO DAVID B. FARER STEPHEN L. RITZ RICHARD J. ERICSSON

ANN M. WAECER HEIDI S. MINUSKIN REBECCA C. CRONEBERGER DANIELE CERVINO BARBARA J. KOONZ JAY A. JAFFE BETH D. POLLACK

Via Federal Express

New Jersey Department of Environmental Protection Division of Water Resources Water Quality Management Element Bureau of Permits Administration CN-029 Trenton, New Jersey 08625

Attention: Monitoring Well Reports

August, 1990 Monitoring Report

Permitee: Victaulic Company of America

Premises: Apex Facility Edison Road

New Village, New Jersey

Warren County

NJPDES Permit No.: NJ0099791

Our file no.: 850401

Dear Sirs:

We are environmental counsel for Victaulic Company of America ("Victaulic").

Here is the required August, 1990, Monitoring Report.

The Monitoring Report analytical results indicate that there has been increases in the levels of dissolved nitrogen/nitrate. have been advised by Cindy DeAngelo of the Warren County Health Department that the Apex Facility is located downgradient of nearby Ise Farms, a very large chicken farm. Ms. DeAngelo advised us that the chicken manure, which contains nitrogen, accumulates in the area of the chicken houses and is also spread on nearby fields. This is the apparent source of the nitrogen/nitrate problem in the groundwater.

We have also been advised by Glen Clouser, Esq., of the New Jersey Division of Law that an Administrative Order has been issued by New Jersey Department of Environmental Protection ("DEP") against Ise The basis of the Order was that Ise Farms was improperly

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New Jersey Department of Environmental Protection Division of Water Resources Water Quality Management Element Bureau of Permits Administration Attention: Monitoring Well Reports August 29, 1990

discharging untreated chicken manure to retention basins which periodically overflowed. We were advised that Ise Farms was required to install monitor wells on its property and to collect groundwater samples in order to investigate the groundwater problem. Additionally, DEP has brought suit against Ise Farms for penalties and injunctive relief.

We have also been informed by Mr. Chuck Viviani of the Bureau of Safe Drinking Water that area production wells are apparently being effected by the nitrogen/nitrate problem created by Ise Farms.

Based upon this information, we believe that Ise Farms is the source of the increased amounts of nitrogen which have been detected in the groundwater at the premises.

As we have informed you previously, there has been no industrial discharge at the Apex Facility since April 1988. In addition, the minor exceedance of permit limitations for total dissolved solids, manganese, sulfate and cadmium are not related to any past or present discharges at the premises, and are therefore totally out of the control of Victaulic.

If you have any questions, please contact us.

JAJ:es

Enclosure

cc: Victaulic Company of America

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DEPARTMENT OF ENVIRONMENTAL PRO'S DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN SW ID NO. FACILITY NAME Apex Facility LAB NAME Cooperative Ventures INC. SAMPLE DATE YR. | MO. | DAY NJPDES NO. WELL PERMIT NO. NJ LAB CERT. NO. WQM USE

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THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR.

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X	X		X		X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	7	2	0	1	9			4	1	c	7	4	7
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WATER QUALITY MANAGEMENT ELEMENT

Page 2

MW-1

GROUND WATER ANALYSIS - MONITORING WELL REPORT

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DEPARTMENT OF ENVIRONMENTAL PROT ON DIVISION OF WATER RESOURCES WATER QUALITY MANAGEMENT ELEMENT

MW-1

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

PLEASE TYP	PE OR PRINT WITH BALLPOINT	PEN			
FACILITY	Apex Facility			SW ID NO.	
LAB NAME	Princeton Testino	Labs			
T	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO. [24-24273-0	SAMPLE DATE YR. MO. DAY 9004/0	NJ LAB CERT. NO.	WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0141818 TO 0131913

SUBMIT WITH SIGNED T-VWX-014 **SAMPLING MONTHS ANALYSIS** UNITS **PARAMETER** VALUE UG/L 4 2 1 5 Acrylonitrile 500 Benzene UG/L 3 4 0 3 0 UG/L **Bromoform** 3 2 1 0 4 Carbon Tetrachloride UG/L 3 2 1 0 2 Chlorobenzene UG/L 3 4 3 0 1 Chlorodibromoethane UG/L 3 4 3 0 6 Chloroform UG/L 3 2 1 0 6 1, 1 - Dichloroethane 3 4 4 9 6 UG/L 51 3 4 5 3 1 1, 2 - Dichloroethane UG/L 1. 1 - Dichloroethylene UG/L 3 4 5 0 1, 2 - Dichloropropane UG/L 4 5 4 UG/L 3 4 3 7 5 Ethylbenzene Methylene Chloride UG/L 4 4 2 3 5 1, 1, 2, 2 - Tetrachloroethane UG/L 4 5 1 6 UG/L Tetrachloroethylene 3 4 4 7 5 Toluene UG/L 3 4 0 1 2 5 1, 1, 1 - Trichloroethane UG/L 3 4 5 0 6 3 4 5 1 1 1, 1, 2 - Trichloroethane UG/L X X Trichloroethylene UG/L 3 9 1 8 0 5 Vinyl Chloride UG/L 9 1 7 5 1 Acrolein UG/L 3 4 2 1 0 0. Chloroethane UG/L 3 4 3 1 1 2 - Chloroethylvinyl Ether 3 4 5 7 6 5] UG/L Dichlorobromomethane 3 2 1 0 5 UG/L 5 1, 3 - Dichloropropylene UG/L 3 4 6 9 9 5 Methyl Bromide 3 4 4 1 3 UG/L 5 2 3 4 4 1 8 Methyl Chloride UG/L 3 4 5 4 6 5. 1, 2 - trans - Dichloroethylene UG/L 1, 2 Dichlorobenzene 3 4 5 3 6 UG/L 1, 3 Dichlorobenzene 3 4 5 6 6 UG/L 5. 1,4 Dichlorobenzene 3 4 5 7 UG/L 15]. 1

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DEPARTMENT OF ENVIRONMENTAL PRO'S DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

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X	T	11	i	ii	i	T	1.	i		Biocher	nical Oxy	gen Den	nand - 5 [Dav	 			┿	÷	÷	÷	H	7	7	<u>/ </u>	t	\vdash	7
X	XI	X			χĪ	T	X										+-	+-	┪—	+-	 	H	十	1	1	十	H	K
X	X	X			X	\top	X			Chlorid	e, Dissolv	ed	,			IG/L as CI	+-	+	-	+-	 -		3/2	_	_	1	H	17
Chromium, Dissolved, Hexavalent Chemical Oxygen Demand (COD), Dissolved MG/L N/100 ML N/100	X				X	T	X	Γ	Г	Chromi	um, Disso	lved			U	G/L as Cr	10	+	+	+-	1	Ħ		_			H	K
Coliform Group Coliform Group N/100 ML N/10					T		1			Chromi	um, Disso	lved, He	×avalent		U	G/L as Cr	10	1	2	2	0	T	\uparrow	Ť	Ť	\vdash	H	7
Coliform Group	\top		T	1	1	T	Τ	Γ	•	Chemic	al Oxygen	Deman	d (COD)	Dissolved	+			┼	-	+	_	\sqcap	十	十	十	H	H	
Color		\prod	Т	П	T	T	T			Coliforn	n Group				N	/100 ML	-		-	-	_	T	十	†-	T	\vdash	H	_
X				П	T	T	T								 							\top	十	十	十		H	٦
Endrin, Total Color	X	X				\top	X			Copper,	Dissolved	1			U	G/L as Cu			-			\top	10	1	1		H	
Endrin, Total Color	X	T = T				7				Cyanide	, Total				+		_		-			\dagger	7	7				1
X X X X X Fluoride, Dissolved					1	7				Endrin,	Total	-	•		1		_	_		_	_	十	十	۲	-	H	计	
Gross Alpha, Dissolved Pc/L Pc/L O 1 5 0 3 Gross Beta, Dissolved Pc/L O 3 5 0 3 Hardness, Total as CaCO ₃ MG/L V V V V V V Manganese, Dissolved UG/L V V Manganese, Dissolved UG/L V V Manganese, Dissolved UG/L V V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved UG/L V Manganese, Dissolved	X	X			रा	T	X					ed .			 			_	_	_	_	\dagger	十	10	H	7	7	ᅱ
Gross Beta, Dissolved					T	Τ									1		_			I		\dagger	+	Ť	H		7	┪
Hardness, Total as CaCO3 MG/L 0 0 9 0 0 0 0 9 0 0 0 0 9 0 0 0 0 9 0 0 0 0 9 0 0 0 0 9 0 0 0 0 9 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					T	T									1							\dagger	十	T	Н	П	\dashv	┪
X X X X X Iron, Dissolved UG/L as Fe 0 1 0 4 6 5 0 . K X <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>T</td> <td></td> <td></td> <td></td> <td>Hardnes</td> <td>s, Total as</td> <td>CaCO3</td> <td></td> <td>······································</td> <td> </td> <td></td> <td>-</td> <td>_</td> <td>I</td> <td></td> <td>_</td> <td>十</td> <td>╁</td> <td>Ħ</td> <td>Н</td> <td></td> <td>\dashv</td> <td>1</td>					1	T				Hardnes	s, Total as	CaCO3		······································	 		-	_	I		_	十	╁	Ħ	Н		\dashv	1
X X X X Lead, Dissolved	X	X			रा		X		\neg	Iron, Di	ssolved				U	G/L as Fe	-		_		-	十	5	1			7	
Lindane, Total	X	X			$\sqrt{}$		X			Lead, D	issolved		· - · ·		 		+			-	-	\dagger	Ť			1		
X X X X Manganese, Dissolved UG/L 0 1 0 5 6 20. K							П	\sqcap		Lindane	, Total								_		<u>~</u> ;	十	+	۲	Η̈́	\dashv	十	4
	X	X			<u>(</u>		X		7	Mangane	ese, Dissol	ved			U	G/L	+- -i	-		_	_	十	12	6	낡	\dashv	\dashv	딝
	X	X		1	V.		+		1	Mercury	, Dissolve	d	• .				4 1	- 1			\dashv	+	⇈	_		5		_

Page 2

WATER QUALITY MANAGEMENT ELEMENT

MW-2

GROUND WATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT	PEN			
FACILITY NAME Apex Facility			SW ID NO.	
LAB NAME Cooperative Ventures	, Inc.	,	······································	
NJPDES NO. S NJ 0 0 9 9 7 9 1 8	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY 9004 10	NJ LAB CERT. NO. 77505 23 27	WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM OF THE SCHEDULE INDICATED BELOW IN THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED BELOW IN THE SCHEDULE INDICATED BELOW IN THE SCHEDULE INDICATED BELOW IN THE SCHEDULE INDICATED BELOW IN THE SCHEDULE IN THE SCHEDULE IN THE SCHEDULE IN THE SCHEDULE IN THE SCHEDULE IN THE SCHEDULE IN THE SC

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\perp	Ĺ				Ĺ		Ĺ			Methoxychlor, Total	UG/L	13	3 9	1 4	8	C	i	Π	Ī		Ī	T	Ī
	$oldsymbol{\perp}$				\perp	\perp				Methylene Blue Active Substances	MG/L	3	1 8	2	6	0	丁	Γ		П		T	7
		X			X					Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N	MG/L as N	C	C	6	0	8		Г	\sqcap	O		3 5	3
		X					1			Nitrogen, Nitrate, Dissolved	MG/L as N	0	O	6	1	8	T	Г					
										Odor	T.O.N.	0	0	0	8	5	T	Г	П	Ĭ	1	Ϊ	Ť
1		X			(y			рН	Standard Units	0	0	4	0	0	1			7		ر ۱۶ ډ	
!			!				!	L		Phenols, Total Recoverable	UG/L	3	2	7	3	0		П	П		T	1	7
L				ĺ	!		Ĺ	Ĺ		Radium 226, Dissolved	Pc/L	0	19	5	0	3				i	+	-	1
L										Radium 228, Dissolved	Pc/L	8	1	3	6	6	П		П	寸	+	T	1
<u>(</u>		X		<u></u>			X	\perp		Selenium, Dissolved	UG/L	0	1	1	4	5	П			5		T	1
	Ш	X	1	<u>ly</u>			X			Silver, Dissolved	UG/L ´	0	1	0	7	5	П	\sqcap		0		\dagger	7
										Sodium, Dissolved	MG/L	0	0	9	3	0	П			Ť	Ť	Ť	1
		X			<u>(</u>		X			Sulfate, Dissolved (as SO ₄)	MG/L	+-	+-	9	+	+-	\sqcap	7	4	—⊢ Sri	\uparrow	+	1
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	li	\top	T	T	T	Τ			T	Total Organic Halogen (TOX)	UG/L	+		3	_		H	寸	+	十	\dagger	十	1
			7	1	T	Ī				Toxaphene	UG/L	+-	-	4	_	-	+	$\overrightarrow{}$	+	+	+	+	1
					T		Π			Turbidity	ŃТU	+-	<u></u>	0	_	_		1	\dashv	+	\dagger	+	t
		X	T	X			X			Zinc, Dissolved	UG/L	+		0		_	\vdash	-	60	-	+	÷	t
				T						2, 4-D, Total	UG/L	 	_	3	_	_		\dashv	1	7	+	+	t
								Γ		2, 4, 5—TP, Total	UG/L	_	_	0	_	_	\sqcap	\top	\dagger	Ť	十	Ť	t
		χ	T	X	Ţ		X	Γ	П	Phosphate	MG/L						it	十	+	0.	+	1	t
		X	T				X			Total Xylene	UG/L	Ī			7	=	*	+	_	5.		+	t
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		T		T	Ī				П			H	-	寸	†	— :	_9 <u>6</u> _	-	$\dot{\top}$	+	÷	+	t
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MW-2

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

PLEA	SE TYP	E OR	PR.	INT	WITE	4 B.	AL	POINT PEN												
FACI	LITY N	AME	Δ	ne	x Fa	20	11	(+)		SW	DI	10.								
LAB	NAME	۵								1 <u></u>										
L		Г	17	ادو	TON	<u> </u>		esting Labs												
				NJP	DES	NO	١.	SAMPLI WELL PERMIT NO. YR. 1 M	E DATE O. ¡DAY	NJ LA	ВС	ER	T. N	۷O.		١,	MDV	USE		
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								SUBMIT WITH SIGNED T-VW	1-014	r r	n e			. , , . ,	(1.11 E	Name on the		^		s
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ج. اق ب	Mar. Apr.	May	7	ģ	e pt	; }	1	ANALYSIS	UNITS	PA	RA	ME	TEI	Ŕ,	· · · · ·	VA	LUE			REMARKS
	िंश	77	1		S V	1	T	Acrylonitrile	UG/L	3	4	21	1	5		121	ol.	17	_	_
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-	X	+	\vdash	Н	-X	+	+	Bromoform	UG/L		-	1	-	4	+	H	<u>5 -</u>	H	-1	K
\vdash	X	\dashv		\Box		+	†-	Carbon Tetrachloride	UG/L		2		-+	2	+	1	<u>a</u> .	2		
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	χÌ	1		H	\ <u>\</u>	T	✝	Chlorodibromoethane	UG/L		4	1		6	+	+	5.	++		以
	X	\top		П	X	T	1	Chloroform	UG/L	3	_			6	┪		51.	++		
	X				X		T	1, 1 - Dichloroethane	UG/L	3			-	6	十		51.	$\forall t$		N.
	X				X	Γ		1, 2 · Dichloroethane	UG/L		4		<u> </u>		十		5.	Ħ	_	K
	X				X		Γ	1, 1 - Dichloroethylene	UG/L	3	_	-	—	1	\top		5 .	$\vdash \vdash$		
	X				X			1, 2 - Dichloropropane	UG/L	3	4	5	_	1	1		5 -	\sqcap		Š
	X				\			Ethylbenzene	UG/L	3	4	3	7	1			51.	\sqcap		K)
	X				X			Methylene Chloride	UG/L	3	4	4	2	3			51.	П	_	K
	X				X			1, 1, 2, 2 · Tetrachloroethane	UG/L	3	4	5	1	6			51.	П	j	₹
	X				X	L	L	Tetrachloroethylene	UG/L	3	4	4	7	5			5.			₹
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					<u> </u>			1, 1, 1 - Trichloroethane	UG/L	3	4	5	0	6		4	51.	Ш	j	₹
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	X	\perp	4	\perp	X	<u> </u>	<u> </u>	Vinyl Chloride	UG/L	3	-	-	_	_	Ш		/ •	5	1	$ \mathbf{k} $
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	X	-	-	\dashv	X		_	2 - Chloroethylvinyl Ether	UG/L	3		-			Ш		5.		<u> </u>	
	<u> X </u>	+-1	\dashv	+	X		_	Dichlorobromomethane	UG/L	3				5	$\perp \downarrow$		5 -		1	7
	<u> </u>	+-	4	+	X	Н		1, 3 - Dichloropropylene	UG/L			3 9			$\perp \downarrow$		<u> </u>	<u>.</u>	_ <u>}</u> K	7
	X	4-4	\dashv	+	13	Щ	<u> </u>	Methyl Bromide	UG/L	3 4		1		3	\coprod		5 .	: · : ·	_ <u>`</u> K	7
	Ŷ	\dashv	\dashv	+	X	Н		Methyl Chloride	UG/L			-		В	4-4	1	<u>.</u>		ľ	4
	X	╫	\dashv	+	X	\vdash	_	1, 2 - trans - Dichloroethylene	UG/L				1 ($\downarrow \downarrow$	14	2 :	-	<u> </u>	
	X	┼┤	+	+	X	\dashv	\dashv	1, 2 Dichlorobenzene 1, 3 Dichlorobenzene	UG/L UG/L	3 4	4 5	3 3	4	<u>5</u> -	╫		<u>.</u>	-	.K	1
	X	+	\dashv	+	X	\dashv	\dashv	1, 4 Dichlorobenzene	UG/L	3 4					++			- ‡		<u>ر</u> د
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NEW J. JEPARTMENT OF ENVIRONMENTAL PRODUCES DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH RALL POINT PEN

FACILITY N	Apex Facility	•		SW ID NO.	
LAB NAME	Cooperative Ventures,	Inc.			
R	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO. 24-24271-3	SAMPLE DATE YR. MO. DAY 900410	NJ LAB CERT. NO. 77505 23 27	WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM ON THE TO TO TO TO THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM ON TR.

												SUBMIT WITH SIGNED T-VWX-	-014					,								
	:	SAN	IPL.	ING	M	ON	TH	s																		RKS
Jan.	. W	Apr.	May.	- Pru	July	Aug.	Sept.	Oct.	Nov.		ğ	ANALYSIS	UNITS	F	'AR	ΑN	1ET	ER	ł		٧	⁄Al	LUE			REMARKS
X		X			X			Х				Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01							2	3 4	1	٦.	9	2	П
X		X			X			Y				Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01							1	3/3	39	1.	14	0	
X		X			X			X		$oxed{ig }$		Depth to water table from top of casing prior to sampling with cap off	feet: to nearest.01	8	2	5	4	E			3	1	7.	1	3	
X		X			X			X	L			Depth to water table from original ground level prior to sampling	feet: to nearest .01	7	2	0	1	9			3	> 6	2 6	3		
X	1	X			X			X	L	\perp		Arsenic, Dissolved	UG/L as As	0	1	0	0	0	\perp	Τ	I	5	5			K
X		<u> X </u>	ot	_!	X	[X	_	1	_	Barium, Dissolved	UG/L as Ba	0	1	0	lo	5		12	10	رار	١.		П	K
		Ш				\Box	_		Ĺ	L		Biochemical Oxygen Demand - 5 Day	MG/L	0	0	13	1	0	T	Ī	T	ī	ī		П	
X X		X			X			X				Cadmium, Dissolved	UG/L as Cd	0	1	0	2	5	Τ	Τ	T	5	T.		П	K
X		X			X			X				Chloride, Dissolved	UG/L as CI	8	2	2	9	5	17	3	0	1	20		П	7
X		X			X			X				Chromium, Dissolved	UG/L as Cr	0	1	0	3	0	1	Τ	5	10) .	П	\Box	K
										Γ		Chromium, Dissolved, Hexavalent	UG/L as Cr	0	1	2	2	0	1	T	T	Ť	T	П		7
										Ī	-	Chemical Oxygen Demand (COD), Dissolved	MG/L	0	0	3	4	1	T		T	Γ	T	П		\exists
										Γ	Ţ	Coliform Group	N/100 ML	7	4	0	5	6	1	Ī			\vdash		\dashv	7
\coprod										Γ	T	Color	Pt - Co	0	0	0	8	0	1	Г	\vdash		\vdash	П	\exists	٦.
X		X	Ţ		X		7	X		Γ	T	Copper, Dissolved	UG/L as Cu	0	1	0	4	0	T		2	0			\dashv	K
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						\Box	1			Γ	1	Endrin, Total	UG/L	3	_	_		_			П			Ť	$\dot{\top}$	4
X		X	$oxed{\int}$	\Box	X	Ī	,	X		Γ	T	Fluoride, Dissolved	MG/L as F	0			5	0			П	0		3	7	7.
											T	Gross Alpha, Dissolved	Pc/L	0	1	5	0	3	T	<u> </u>	Π	Ť		Ť	\dagger	7
					\Box	T	T			Γ	T	Gross Beta, Dissolved	Pc/L	0	3	_	0	-			П	_	П		寸	7
\coprod										Г	T	Hardness, Total as CaCO ₃	MG/L	0	0	9	0	0			Ħ		\Box	寸	十	十
X		Υ.	ŀ		X		Ī	X			T	Iron, Dissolved	UG/L as Fe	0	1	0	4	6			6	0		\dashv	\top	7
X		X		J.	X			Υ			T	Lead, Dissolved	UG/L as Pb	0	1	0	4	ĝ		_		15		寸	寸,	
							T				T	Lindane, Total	UG/L	3	9	7	8	2	İ		П	<u>-</u>	Ť	十	†	Ť
χ	\Box	X	\int		X	\int	\prod	V			I	Manganese, Dissolved	UG/L	0	1	0	5	6			2	0	1/1	十	1	K

8 9

UG/L

VALUE CODING RULES AND REMARK CODES ON REVERSE

Mercury, Dissolved

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT	PEN			
FACILITY NAME Apex Facility			SW ID NO.	
LARMAME	S, INC.			-
NJPDES NO. S NJ 0 0 9 9 7 9 1	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY PO 04 10	NJ LAB CERT. NO. 77 5 0 5 23 27	WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM ON THE TO NO. YR. TO NO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	reb. Mar. s	AMA:					.	Nov. Dec.	ANALYSIS	UNITS	P	AR.	AM	ΕT	ER			V	/AL	.UE			REMARKS
	ī	П	Τ	Π	Ī	i	T	T	Methoxychlor, Total	UG/L	3	9	4	8	C	ī	T	Τ	ī	ī	ī	\Box	Ē
		\Box	\top		\exists	\top	\top	\top	Methylene Blue Active Substances	MG/L	_	+-	┪	+-	0		+	T	†	Ť	_		M
X		X		X	\exists	7	X	\top	Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N			+	+	+	8	-	Ť	T	0		1	П	K
χ	T	X		X			X		Nitrogen, Nitrate, Dissolved	MG/L as N	0	0	6	1	8	1	T	\top			0		
	1	\sqcap	7	П	\top	\top	\top	T	Odor	T.O.N.	+-	+	+-	+-	5	-	T	T	†	Ť		, u	Γ
K		χ	1	X	\exists	\exists	1		На	Standard Units	0	0	4	0	0	T	1	T	17	1.	3	8	
1			1		丁	Ţ			Phenois, Total Recoverable	UG/L	3	2	7	3	0	T	十	<u> </u>	 	 -		Ĭ	
		1	ī		ſ	i	ī	T	Radium 226, Dissolved	Pc/L	0	9	5	0	3	1	T			i	: 		_
		П		П	\top	1	T	1	Radium 228, Dissolved	Pc/L	8	1	3	6	6	T	1	T	_	T			_
N		χ		X		1			Selenium, Dissolved	UG/L	0	1	1	4	5	T	T	\vdash	5	10	П		_
ζ		X		X		7			Silver, Dissolved	UG/L	0	1	0	7	5	Τ	T	2	0	_		\neg	K
		İ			T	T	T	T	Sodium, Dissolved	MG/L	0	0	9	3	0	T	\top	1		Ť	П	\exists	
XI_		χ		X	\top	1			Sulfate, Dissolved (as SO ₄)	MG/L	0	0	9	4	6	Γ	1	5	4	١٠		\exists	_
4		X		X	T	1		1	Total Dissolved Solids (TDS)	РРМ	7	0	3	0	0	T		8	j			寸	_
T					1	T	T		Total Organic Carbon (TOC)	РРМ	0	0	6	8	0	T	T					\exists	_
						T		T	Total Organic Halogen (TOX)	UG/L	7	0	3	5	3	T	T				T	ヿ	_
						T	1		Toxaphene	UG/L	-	9			+	T	Ħ				\dashv	7	_
					Ţ	T	T	1	Turbidity -	NTU	1	0			+	Г						7	
<u> </u>		X		X		1)	1		Zinc, Dissolved	UG/L	0	1	0	9	0	Γ		a	0			7	K
					T	Τ	T		2, 4-D, Total	UG/L	3	9	3	7	0-		П				\exists	ヿ	
						T			2, 4, 5-TP, Total	UG/L	3	9	0	4	5	Г	П	П			T	7	_
		X		X	T	1			Phosphate	MG/L							П	\Box	0		a	īĪ	_
		X				7			Total Xylene	UG/L	•		•	-	F	[!]		5		T	-1	K
									·							7					\exists	7	_
1																					-	十	
						Ţ	Τ				П		\neg		П	[;]		1	Ī		丁	寸	_
		\perp															<u>. </u>		Ť		1	寸	
						T	Γ				П	一	٦		[]		; - '	ī		Ī	7	7	
											29				7				_			10.	r

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT.

FACILITY	NAME Apex I	Facility			SW ID NO.	
AB NAME			Labs			
	NJPDE	s NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	N7 0 0 9 9	9 7 9 1	24-242711-3	900410	11118	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM ON THE TO NO. YR. TO NO. YR.

SUBMIT WITH SIGNED T-VWX-014

			LIN						1														REMARKS
Jari.	Mer. B	Apr.	May				i ;	N Š	S ANALYSIS	UNITS	P	ΑΙ	RA	ME	TE	ER			VA	LUİ	Ē		REN
		χl		Τ	T	T	X		Acrylonitrile	UG/L	3	3	4	2	1	5	T		5	0		\Box	K
	1.	X	Т	Τ	T	T	X		Benzene	UG/L	3	: [4	0	3	0	T	П		5		\top	K
		X		\mathbb{L}	Τ	I	X		Bromoform	UG/L	3	1	2	1	0	4	Т	П		5		\top	K
		X					K	·	Carbon Tetrachloride	UG/L	3	ij	2	1	0	2		П		2		2	K
		X		L		L	X		Chlorobenzene	UG/L	3	ij	4	3	0	1	Т	П	_	5	_	\top	K
		X				T	X		Chlorodibromoethane	UG/L	3	1	4	3	0	6	T	П	-	5	_	\top	K
		X		Ţ		L	X		Chloroform	UG/L	3	T	2	1	0	6	1	П		5	\Box	T	K
	ŢŢ	X	T				X		1, 1 - Dichloroethane	UG/L	3	1	4	4	9	6		П		5		\top	X.
		X.					X		1, 2 - Dichloroethane	UG/L	3	7	4	5	3	1			1	5		T	K
		रा					X		1, 1 - Dichloroethylene	UG/L	3	1	4	5	0	1		П		51.		\top	K
		۲					X		1, 2 - Dichloropropane	UG/L	3	1	4	5	4	1		П		51.		T	K
		<u> </u>					X		Ethylbenzene	UG/L	3	Ţ	4	3	7	1		П	1.	5 ا	T	\top	K
		(X		Methylene Chloride	UG/L	3	Ţ	4	4	2	3	П	П		51.	.	\top	K
	T I						X		1, 1, 2, 2 - Tetrachloroethane	UG/L	3	7	4	5	1	6	П	П		5		7	K
	\prod	X	Ţ	Π			X	\Box	Tetrachloroethylene	UG/L	3	1	4	4	7	5	П	\sqcap		5 6		\top	K
	\prod	X	T	Π			X	П	Toluene	UG/L	3	1	1	0	1	2		\sqcap	_	5.		\top	K
\prod		T	T	Π	Γ		X	Т	1, 1, 1 - Trichloroethane	UG/L	3	1	1	5	0	6		\neg		5		Ť	S
П		ΚĪ	Τ	Γ	Γ	Γ	X	\top	1, 1, 2 - Trichloroethane	UG/L	3	1	•	5	1	1		\neg	-+		2)	1	E.
П	\prod	X	Τ		Γ	Γ	X		Trichloroethylene	UG/L	3	1	5	ī	8	0	П	\neg	_	ᆂ		+	7
	Π,	X	Т	Π	Γ		X	\top	Vinyl Chloride	UG/L	3	1	3	1	7	5		\top			. 1	- بخ	Z.
\sqcap	T	(T			Π	X		Acrolein	UG/L	3	-	1	2	1	0			510	_	-	· -	1
П	1 17	(T	T		Γ		X		Chloroethane	UG/L	3	14	1	3	1	1		1	_	5 •	-	•-	2
П	1	त	T	Γ			X	\top	2 - Chloroethylvinyl Ether	UG/L	3	1	1	5	7	6	П	寸		5.		; -	E
\sqcap	1	d	1	Γ			3		Dichlorobromomethane	UG/L	3	1	2	1	0	5		す		51.	_	•	الأنا
	1	_	T		Γ		X	7	1, 3 - Dichloropropylene	UG/L						9		\top	_	5.	\dagger	•••	
\sqcap	1		1	Γ	Γ		X	\top	Methyl Bromide	UG/L	3	_	-4-	_:	ī		Н	十	1	5	+		划
Π		1	1				र	\top	Methyl Chloride	UG/L	3	1	1	-	1		Н	+	5		i	-	:
\sqcap		K	1	Γ	Ī		₹I	1	1, 2 - trans - Dichloroethylene	UG/L	3	-	-	-	4	_		十	1	<u> </u>	-	• -	7
	1		T	Г	<u> </u>		X	\top	1, 2 Dichlorobenzene	UG/L						6		\top	— - <u>4</u>		- ;	1	. FI
	Ì						X		1, 3 Dichlorobenzene	UG/L	3					6		\top		7	Ť	†	Κ. (2)
							X	$oldsymbol{\mathbb{T}}$	1, 4 Dichlorobenzene	UG/L	3	4		5		1	_	\top	<u>۔</u> کا		T	†	X
									,		29					33	34		_		_	-41	-

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN			
FACILITY NAME	•	SW ID NO.	
Apex Facility	·		
LAB NAME Cooperative Ventures, INC.	•		
	CALCUEDA		

NJPDES NO. WELL PERMIT NO. SAMPLE DATE YR. MO. DAY NJ LAB CERT. NO. WOM USE 1 2 23 27

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM O 14 8 TO 013 913 MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	YPE.						_	Nov.	Dec	ANALYSIS	UNITS	PARAMETE				ER			V	ALI	UE		704134	TEMP TO
X		X			Χ			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01							3	4	a		2	4	
X		X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01				_			ı	1.	1	1	7	0	
X	\perp	X	L		X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest.01	8	2	5	4	6			3	7	•	4	a	
X	_	X			X		_	X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	7	2	0	1	9			3	5	1 1	8		
X	\perp	X	+		X			X	L	_	Arsenic, Dissolved	UG/L as As	0	1	0	0	0				5	e		I	
X		X	!	!	X			X		L	Barium, Dissolved	UG/L as Ba	0	1	0	0	5		2	o.	0		-	_ K	
Ц	1				_				Ĺ	L	Biochemical Oxygen Demand - 5 Day	MG/L	0	0	3	1	0			•			Ī	T]
X		X			X	Ŀ		X			Cadmium, Dissolved	UG/L as Cd	0	1	0	2	5				5			T	7
K	\perp	X	Ш		X			X			Chloride, Dissolved	UG/L as CI	8	2	2	9	5	9	0	0	O	•	٦	T	1
X	\perp	<u> X</u>			X			X			Chromium, Dissolved	UG/L as Cr	0	1	0	3	0			3	0			K	1
						j	1				Chromium, Dissolved, Hexavalent	UG/L as Cr	0	1	2	2	0	П	\neg				\top	丁	1
\sqcup										•	Chemical Oxygen Demand (COD), Dissolved	MG/L	0	0	3	4	1	П	\neg		Ì		1	T	1
\sqcup											Coliform Group	N/100 ML	7	4	0	5	6			\neg				T	1
											Color	Pt - Co	0	0	0	8	0	П						1	1:
X		X			X			X			Copper, Dissolved	UG/L as Cu	0	1	0	4	0	П		اٰد	ol		1	K	1
X		X			Х			X			Cyanide, Total	MG/L as CN	0	0	7	2	0		1				0	TH	j
Ш											Endrin, Total	UG/L	3	9	3	9.	0	П		\exists			T	7	1
X		X			X			X			Fluoride, Dissolved	MG/L as F	0	0	9	5	0		\exists	T,	ol		20	اد	1
											Gross Alpha, Dissolved	Pc/L	0	1	5	0	3	П	\top	T				7	1
\Box											Gross Beta, Dissolved	Pc/L			_	0	_	П	7	\exists	寸		\top	十	1
											Hardness, Total as CaCO ₃	MG/L	0	0	9	0	0	\sqcap	\top	Ť	7	7	\top	1	1
X		X			X			X			Iron, Dissolved	UG/L as Fe	0	1	0	4	6		7	5	d	٥	\top	K	1
X		X		brack	X			X			Lead, Dissolved	UG/L as Pb	0	1	0	4	ĝ	T	T		3		\top	K	1
											Lindane, Total	UG/L	3	9	7	8	2	\sqcap	7	7	7	7	\top	1	1
X		X			X			X			Manganese, Dissolved	UG/L `	0	1	0	5	6		į,	व्र	ol	.1	1	K	1
X		X		Ţ	X			X			Mercury, Dissolved	UG/L	7	1	8	9	0		Ť	_	ol.	-+-	5	K	1
													L			لــــا	33	34						0 41	_

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Page 2

WATER QUALITY MANAGEMENT ELEMENT

MW-4

GROUND WATER ANALYSIS - MONITORING WELL REPORT

FACILITY	NAME Apex Facility			SW ID NO.	
LAB NAME	Cooperative Ventur	es, Inc.			
S	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO. [24-24270-5]	SAMPLE DATE YR. MO. DAY O O U DO 17	NJ LAB CERT. NO. 77505 23 27	WQM USE
THE SCH	EDULE INDICATED BELOW IS T		818 то <u> 0131913</u> Ук. по <u>Мо. ук.</u>		

SUBMIT WITH SIGNED T-VWX-014

독 윤	Mar.	Apr. May	June	July	Aug.	Sep.	oct.	, S	ANALYSIS	UNITS	P	AR	AN	ET	ER			٧	AL	UE		
T				İ	\top	i	T		Methoxychlor, Total	UG/L	3	9	4	18	C	i	T	Γ	ī	ī	П	
\top					T		\neg	7	Methylene Blue Active Substances	MG/L	3	8	2	6	0	T	T	T	Г	Γ		
X.		χl		X		7	X	\neg	Nitrogen, Ammonia, Dissolved NH ₃ + NH ₄ as N	MG/L as N	0	o	6	0	8		T	\sqcap	0		П	$\overline{1}$
χ	1	V		Y	7		X		Nitrogen, Nitrate, Dissolved	MG/L as N	0	0	6	1	8	T	Γ	Γ			11	0
1	П				\top	1			Odor	T.O.N.	0	0	О	8	5	T	\top	Г	Г	Ī	П	
(X		X	\top		X		pH	Standard Units	0	0	4	0	0	Τ	Г	П	7	Ī.	3	9
1	П				T	Ţ	7		Phenols, Total Recoverable	UG/L	3	2	7	3	0	T					П	
-			i	!	1	i	i	T	Radium 226, Dissolved	Pc/L	0	19	5	0	3	T	Γ		 i		, 	
				٦	7	T	T	7	Radium 228, Dissolved	Pc/L	8	1	3	6	6	T		П	П		П	٦
	П	K		X	\top	ľ	K	\top	Selenium, Dissolved	UG/L	ļ	1	1	4	5	T			5		П	
		X		X	T		X		Silver, Dissolved	UG/L			0	7	5	Г		-	0	•	П	
			٦	T	T	1	T	\top	Sodium, Dissolved	MG/L	0	0	9	3	0	Γ	Г				П	
		X	T	X	T		X	T	Sulfate, Dissolved (as SO ₄)	MG/L	0	0	9	4	6			7	3	\Box	\sqcap	
		χŢ		X	T	7	X!	\neg	Total Dissolved Solids (TDS)	РРМ	7	0	3	0	0			0	_	•	T	
				Ī	T	Ī	T		Total Organic Carbon (TOC)	РРМ	0	0	6	8	0						\Box	
	i			7	T	T	T		Total Organic Halogen (TOX)	UG/L	7	0	3	5	3	Γ				П	T	
				1	Ī	1	7		Toxaphene	UG/L	3	9	4	0	0	Τ	П		\neg		Ī	
					Ţ	T	T		Turbidity	NTU	0	0	0	7	6						Ī	
		X	T	χl	T	T	X	T	Zinc, Dissolved	UG/L	0	1	0	9	0			2	0	٥	$\overrightarrow{}$	٦
П		\Box	T		1	Ī	T	T	2, 4-D, Total	UG/L	3	9	3	7	0-		П		٦		\top	٦
				T	T	T	T	T	2, 4, 5-TP, Total	UG/L	3	9	0	4	5	П	П				T	٦
	\Box	X		X		Ţ	K	T	Phosphate	MG/L								П	o	٦	il	П
		X				7	K		Total Xylene	UG/L				-	F		1	Ţ	5		T	٦
									· ·							7		Ī	\exists	\neg	T	7
			I	\prod		\int															-]
						Ţ										;		╗	Ī		T	1
				\Box		J	J								 		-	1	\neg		T	7
	1		T	Ī	Τ	T	Т	T						Γ	Γ.			Ī	i	Ī	T	٦

VALUE CODING RULES AND REMARK CODES ON REVERSE

42 55 68 53 54 66 67 79 80

Y DEPARTMENT OF ENVIRONMENTAL PROT' DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

MW-4

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

FACILITY N	Apex Facility	,		SW ID NO.	
LAB NAME	Princeton Testing	Lubs	•		
T	NJPDES NO. NJ 0 0 9 9 7 9 1	WELL PERMIT NO. [24-24-5]	SAMPLE DATE YR. MO. DAY O U O 17 22	NJ LAB CERT. NO.	WQM USE
THE SCHEE	COULE INDICATED BELOW IS TO	D BE OBSERVED FROM 01418	<u> </u>	\ 	

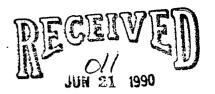
SUBMIT WITH SIGNED T-VWX-014

	S	AM	LIN	IG N	101	NTI	нѕ				·											REMARKS
Jan.	Feb.	Apr.	Μ.,	e i	٠ ال	Aug.	بر م	2	ď	ANALYSIS	UNITS	F	AR	AM	ET	ER			VAL	ŲE		REM.
		X	Τ	Τ	Τ	T	X	_	T.	Acrylonitrile	UG/L		3 4	172	2 1	5	1		50	ماد	\prod	K
		X			Τ	\perp	_\x			Benzene	UG/L]3	1 4	I) 3	0	T			51.		K
		X					14		Ι	Bromoform	UG/L		1	2 1	0	1 4		П		51.		K
Ш		X					X			Carbon Tetrachloride	UG/L	3	1 2	2 1	0	2			_	21.	12	K
		X					X			Chlorobenzene	UG/L		1 4	3	0	1	1			50		K
		X					X			Chlorodibromoethane	UG/L	13	1 4	3	3 0	6		П	5	_	П	TK
		X		T_{-}	\prod	\perp	X]_	Ţ	Chloroform	UG/L	3	2	2 1	0	6	T	П	٤		П	TK
		X		Τ	Τ	Τ	X			1, 1 - Dichloroethane	ŲG/L	3	4	4	19	6		П	5		П	IK.
		X	\perp		Ι		X			1, 2 - Dichloroethane	UG/L	3	4	5	3	1			15	1.	П	K
		X					X			1, 1 - Dichloroethylene	UG/L	3	4	5	0	1	Τ	П	5		П	K
Ш		X					X			1, 2 - Dichloropropane	UG/L	3	4	5	4	1		П	5		П	TKI
Ш		<u> </u>					X			Ethylbenzene	UG/L	3	4	3	7	1	П	П	5	10	П	K
Ш		X					K			Methylene Chloride	UG/L	3	4	4	2	3	Π	П	3	1.	П	K
		X					X			1, 1, 2, 2 - Tetrachloroethane	UG/L	3	4	5	1	6		П	5	1.	П	K
Ш		X	<u>. </u>			Ι	X			Tetrachloroethylene	UG/L	<u> 3</u>	14	4	7	5			5	1.	П	K
		χ					X			Toluene	UG/L	3	4	0	1	2			5		П	K
		X					X			1, 1, 1 - Trichloroethane	UG/L	3	4	_		6						K
		X		Г	Γ	T	X	Γ	Γ	1, 1, 2 - Trichloroethane	UG/L	3	4	5	1	1	П			1.		TX.
	\prod	X		Ţ	Γ	Τ	X			Trichloroethylene	UG/L	3	9	1	8	0	П		o	1.		1
		X	T	T		Π	X			Vinyl Chloride	UG/L	3	9	1	7	5	П		1/	٥	5	K
		X	Т	1	Γ		X			Acrolein	UG/L	3	4	2	1	0			50	+	-	材
				T			X			Chloroethane	UG/L	3	4	3	1	1		T	5		_	K
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ERES

EASTERN REMEDIAL ENVIRONMENTAL SERVICES, INC

1150 NEWTON STREET NORTH BRUNSWICK, NEW JERSEY 08902 (201) 247-6333 FAX: (201) 247-0625



Division Water Resources
Bureau of Bround Water Quality Mgt.

June 12, 1990

Mr. Stephen W. Johnson, Chief Bureau of Ground Water Discharge Control NJDEP Division of Water Resources CN029 Trenton, NJ 08625-0029

SUBJECT: Apex Facility, Edison Road, Franklin Township

NJPDES Permit No. NJ0099791 Amendment to Sampling Plan

Dear Mr. Johnson:

Eastern Remedial Environmental Services (ERES) has received your Sampling Plan acceptance letter for the subject project. The letter listed six (6) items to be included in the Sampling Plan prior to its implementation at the site. The following information is provided as an addendum to the Sampling Plan and is listed in the same order as your letter:

- (1) Two (2) additional soil samples have been included in the sampling scheme. The locations of these sampling points are included on the attached Facility Layout/Sample Location Map. The additional samples will be analyzed for all parameters listed in the Soil Sample Summary Table.
- (2) A field investigation was conducted at the Apex facility and the concrete plant ruins prior to completion of the Sampling Plan. The purpose of this investigation was to determine all locations that appeared to be "points of discharge" or locations where water ponded prior to infiltration. The inspection was scheduled for a day which followed several days of heavy precipitation. The entire length of the trench was inspected as well as the concrete plant ruins and the stone towers. It appeared that any flow from the upgradient direction infiltrated along the length of the trench and did not flow along the surface beyond the trench. The trench was not connected to the concrete ruins or the 30' stone structures and surface discharge did not flow to these structures.
- (3) A contingency sample is planned should sludge be encountered at the proposed sampling location. An alternate sample location would be chosen as close to the original sample as possible while taking into account worker safety in the trench.
- (4) The following methods will be used by the laboratory when performing analysis on the soil samples from the Apex facility:

Analysis	Method SW846
Total Zinc	7950
Total Lead	7421
Total Nickel	7520
Total Chromium	7191
Total Cadmium	7131

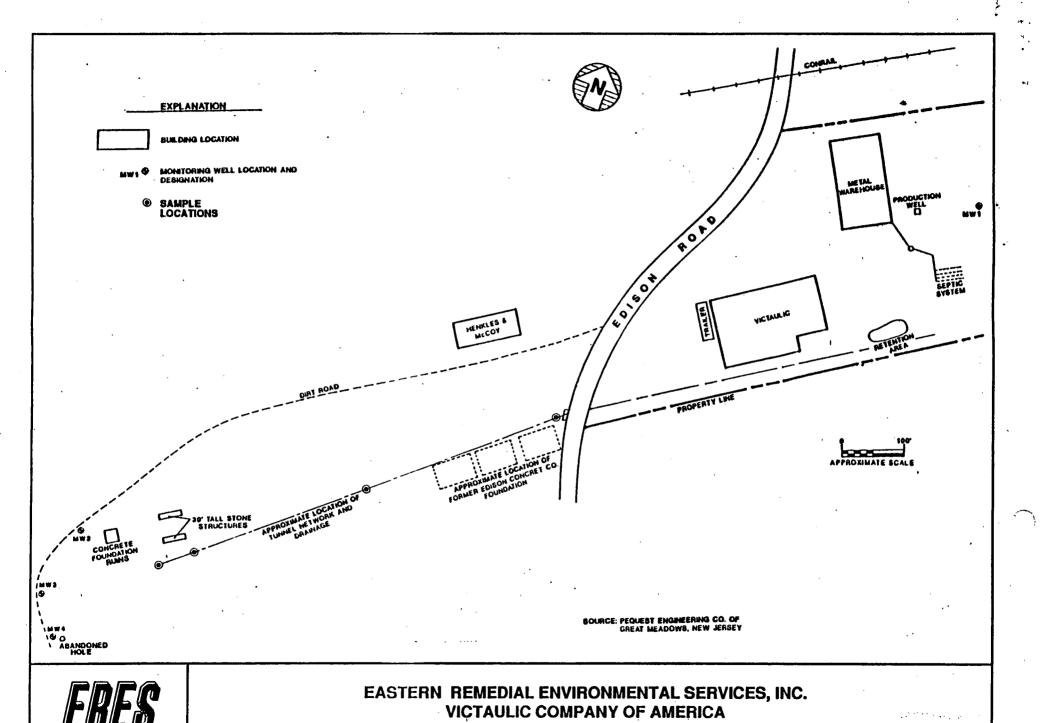
- All sampling at the Apex Facility will be done according to the NJDEP Hazardous Waste Programs Field Procedures Manual.
- (6) In accordance with Item 6, iron has been removed from the list of analysis parameters and nickel has been substituted.

Weather permitting, ERES plans to collect samples at the Apex facility on June 20 or 21, 1990. Based on a standard turnaround, laboratory results should be available four (4) weeks after collection. Please contact me if you have any further questions regarding this Sampling Plan Addendum. I can be reached at (201)247-6333.

Very truly yours,

Lorrie Ruh Hanson

Project Manager



FACILITY LAYOUT/SAMPLE LOCATIONS



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES NORTHERN BUREAU OF REGIONAL ENFORCEMENT

1259 ROUTE 46, BUILDING 2 PARSIPPANY, NEW JERSEY 07054

GEORGE G. McCANN, P.E. DIRECTOR

DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

JUL 13 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Victaulic Company of America Box 31, 4901 Kesserville Road Easton, Pennsylvania 18042

Dear Permittee:

Re: Compliance Evaluation Inspection

Victaulic Company of America-Apex Facility

NJPDES No : NJ0099791

Class: MIN-IND/DGW

Munic/County: Franklin Township, Warren County

A Compliance Evaluation Inspection of your facility was conducted by a representative of this Division on May 24, 1989. A copy of the completed inspection report form is enclosed for your information.

Your facility received a rating of "UNACCEPTABLE" due to the following deficiency:

Industrial Facility Wastewater Reports for discharge serial numbers IO1 and IO2 are not available on-site for review. Therefore, Victaulic Company of America is to submit to this writer copies of the Industrial Facility Wastewater Reports and corresponding laboratory analyses to date and all subsequent reports and analysis.

NOTE:

Victaulic Company of America is scheduled for first round of sampling of four ground water monitoring wells in July 1989. This Bureau is requesting that a copy of the ground water analyses be provided to this writer when it becomes available to Victaulic

Since the deficiency cited is presently, or may in the future, adversely affect effluent quality, you are DIRECTED to institute measures to correct the deficiency. A written report concerning specific details of remedial measures to be instituted, as well as an

implementation timetable, must be submitted to this Department and USEPA, Permits Administration Branch, within thirty (30) calendar days of the date of this correspondence.

Both the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 466 et seq.) provide for substantial monetary and criminal penalties in cases of permit violations.

Please direct all correspondence and inquiries to Charles Ziegmont, of my staff, who can be reached at (201) 299-7592 or by letter through this Division.

Failure to fully comply with the above will result in the initiation of enforcement action by this Department and/or the U.S. Environmental Protection Agency. This shall in no way be construed, however, to indicate any exemption on your part from possible penalties for violations indicated by the Compliance Evaluation Inspection, as stated above.

Very truly yours,

Mary EF letcher

Mary E. Fletcher, Supervisor Ground Water Discharge Enforcement Northern Bureau of Regional Enforcement

A18:dc

Enclosure

c: Chief Joseph M. Mikulka, Northern Bureau of Regional Enforcement Ronald Eroh, Victaulic Company of America-Apex Facility Betsy Hines, Warren County Health Department

bc: Charles Ziegmont
Mary Fletcher
Mike Infanger, Bureau of Ground Water Discharge Control
Bureau File THRU M. Fletcher
Central File/NJPDES: NJ0099791
Enforcement Actions (Virginia Kennedy)



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES CN 029, Trenton, N.J. 08625

DISCHARGE SURVEILLANCE REPORT

PERMIT # NJCC99791 NO. OF DISCHARGES CLASS MIN-IND /DO
DISCHARGER Victaulic Co. of American - Apex Facility
OWNER Victoria Co. (Facility owner) and Franklin Int Pk (P
MUNICIPALITY Franklin Tup COUNTY Warren WATERSHED CODE NA LOCATION Edison Rd. (Lot 12, Block 41) RECEIVING WATERS Grown Water STREAM CLASS NA LICENSED OPERATOR & PLANT CLASS NONE REQUIRED TRAINEE/ASSISTANT OTHER INFO. 859-0085
DEFICIENCIES OR COMMENTS O No recens available on s. Fe
Four ground nature monthing wills are required
but have not been tilled as of date
the Bureau of Ground wite Discharge Control
were notified that the Mws were installed and due to be sampled in The 189.
OVERALL RATING Acceptable Conditionally Acceptable Unacceptable
EVALUATOR Charles Ziemont TITLE Environmental Specialist INFORMATION FURNISHED BY (Name) Ren Eroh (Title) Plant Manager (Organization) Victualis
DATE OF INSPECTION $\frac{5/24/39}{}$

SEY DEPARTMENT OF ENVIRONMENTAL PRODUCTION DIVISION OF WATER RESOURCES CN 029, Trenton, N.J. 08625

Page 2 of # (G)

Permit # <u>NJ009979</u> / Date 5/24/89

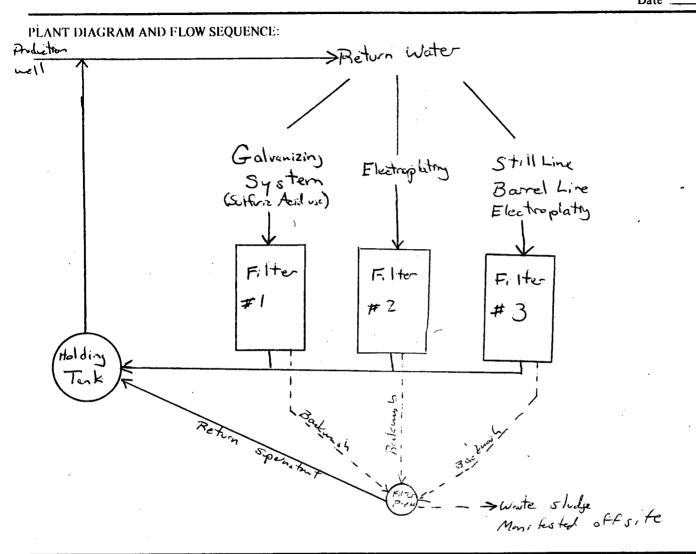
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ELEVATION INFORMATION	
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CLASSIFICATION NA	
PERC./LEACHING PROBLEMS	
SOLVENTS/REPAIRS MADE MAX. PRESSURE & VOLUME	
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NEW (SEY DEPARTMENT OF ENVIRONMENTAL PRO 1 ... TION DIVISION OF WATER RESOURCES CN 029, Trenton, N.J. 08625

Page 3 of #

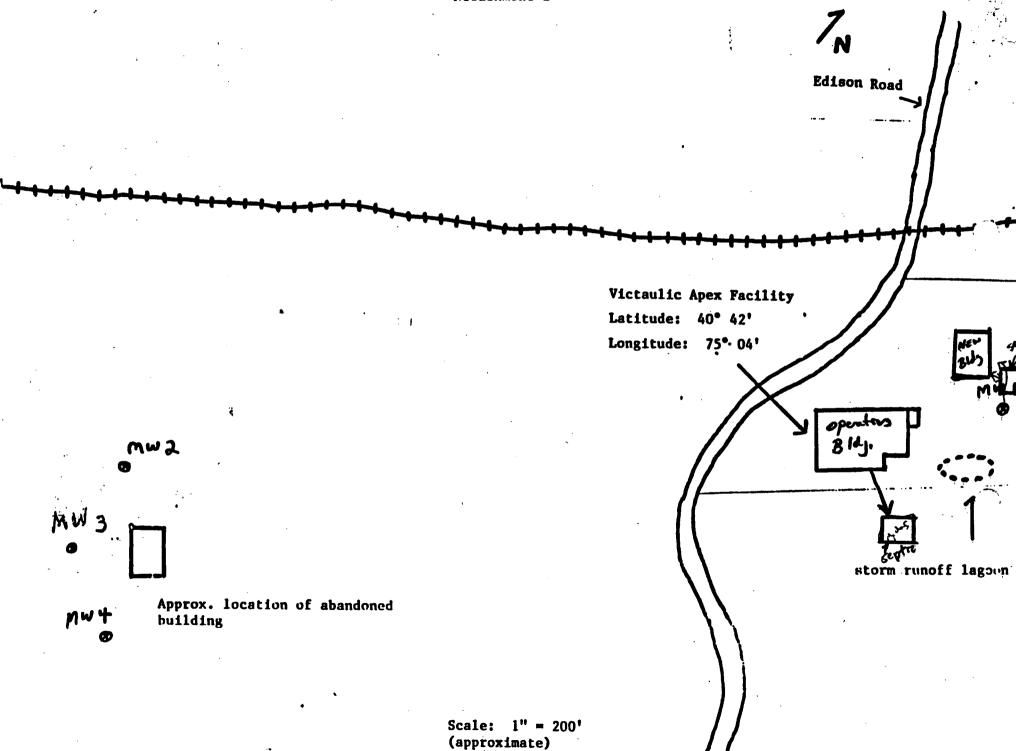
DISCHARGE SURVEILLANCE REPORT



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SENDER: Complete items 1 and 2 when additional a 3 and 4.	services are desired, and complete items
Put your address in the "RETURN TO" Space on the rever	se side. Failure to do this will prevent this
card from being returned to you. The return receipt fee will pr	rovide you the name of the person delivered
to and the date of delivery. For additional fees the following	services are available. Consult postmaster
for fees and check box(es) for additional service(s) request	ed
1. Show to whom delivered, date, and addressee's ad	
(Extra charge)	(Extra charge)
(Extra charge)	
3. Article Addressed to:	4. Article Number 545,548441
Mr. Carl Brown	ype of Service:
Vitaulic Corporation of Americ	Registered Insured
Arcaging Corboracton of Wiletic	Certified COD
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Stewartsville, New Jersey 0880	6
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	or agent and DATE DELIVERED.
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6. Signature – Agent	
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7. Date of Delivery	
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PS/Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-	-865 DOMESTIC RETURN RECEIPT

Mailing?

NOT DOCUMENTED.

4/5/89